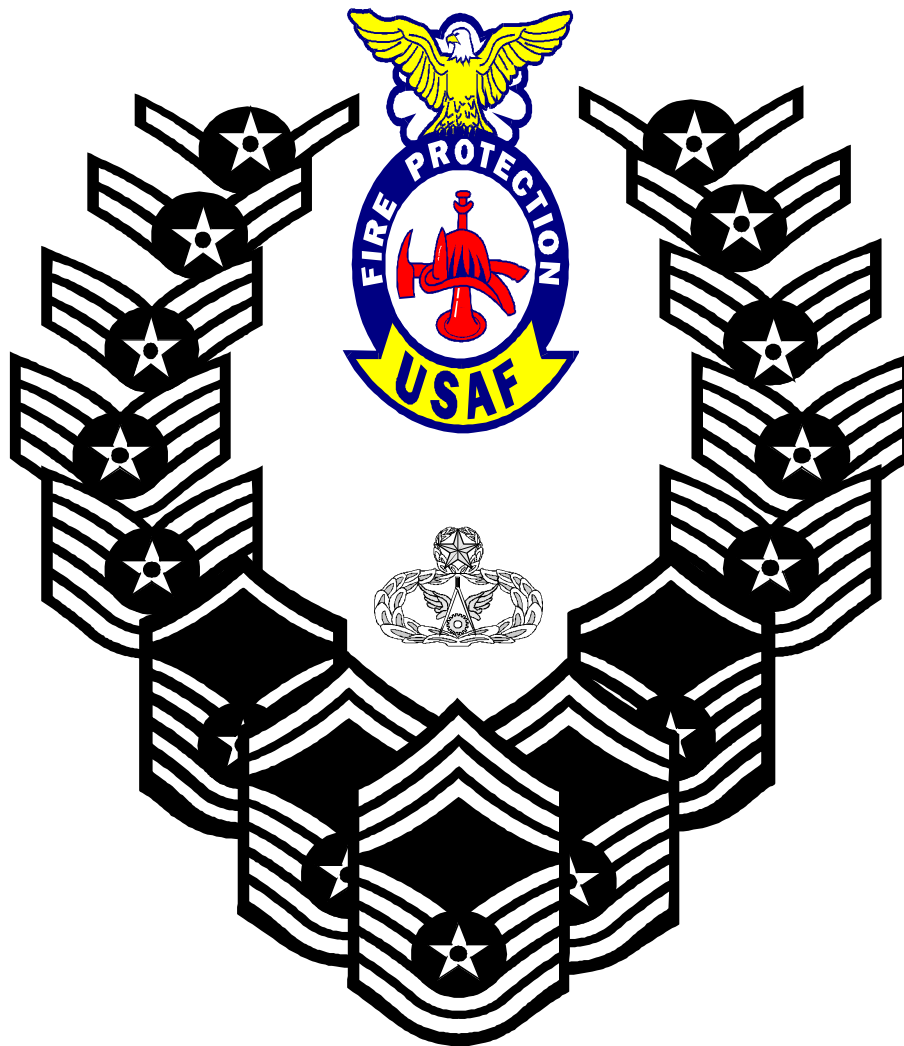


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Parts I and II
1 April 1997

AFSC 3E7X1

FIRE PROTECTION



CAREER FIELD EDUCATION

**CAREER FIELD EDUCATION AND TRAINING PLAN
FIRE PROTECTION SPECIALTY
AFSC 3E7X1**

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PREFACE

1. As the Air Force grows smaller, we must ensure that our people have the skills necessary to accomplish today's mission by placing greater emphasis on career field training. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources, and the minimum core task requirements for the fire protection specialty. The CFETP will provide our people with a clear career path to success and instill rigor in all aspects of our career field training.

2. The CFETP consists of two parts; both parts of the plan are used by supervisors to plan, manage, and control training within the career field.

2.1 Part I provides information necessary for overall management of the specialty.

- **Section A** provides general information about how the CFETP will be used.
- **Section B** identifies career field progression information, duties and responsibilities, training strategies, and the career field path.
- **Section C** associates each level with specialty qualifications (knowledge, education, and training).
- **Section D** indicates resource constraints. Some examples are funds, manpower, equipment, and facilities.
- **Section E** identifies transition training guide requirements for SSgt through MSgt.

2.2 Part II includes the following:

- **Section A** identifies the Specialty Training Standard (STS) to include duties, tasks, and technical references to support Air Education and Training Command (AETC) conducted training, wartime course, core tasks, and correspondence course requirements.
- **Section B** contains the course objective list and training standards supervisors will use to determine if an airman has satisfied training requirements.
- **Section C** identifies available support materials. Qualification Training Packages (QTPs) and CerTest support both upgrade training (UGT) and qualification training. These packages are indexed in AF Index 8 (AFIND 8), *Numerical Index of Specialized Educational Training Publications*.

- **Section D** identifies a training course index supervisors can use to determine resources available to support training. Included here are both mandatory and optional courses and exportable courseware.
- **Section E** identifies MAJCOM-unique training requirements supervisors can use to determine additional training required for the associated qualification needs.
- **Section F** identifies home station training references and courses for this specialty in support of contingency/wartime training.

3. Using the guidance provided in the CFETP will ensure individuals in this specialty receive effective and efficient training at the appropriate point in their careers. This plan will enable us to train today's work force for tomorrow's jobs. At the unit level, supervisors and trainers will use Part II to identify, plan, and conduct training commensurate with the overall goals of this guide.

ABBREVIATIONS/TERMS EXPLAINED

Advanced Training (AT). A formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

Air Force Career Field Manager (AFCFM). An individual on the Air Staff charged with the responsibility for overseeing all training and career field management aspects of an Air Force Specialty or group of specialties.

Air Force Job Qualification Standard/Command Job Qualification Standard (AFJQS/CJQS). A comprehensive task list which describes a particular job type or duty position. They are used by supervisors to document task qualifications. The tasks on AFJQS/CJQS are common to all persons serving in the described duty position.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, multipurpose document encapsulating the entire spectrum of education and training for a career field. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, to eliminate duplication, and to ensure this training is budget defensible.

CerTest. CerTest is an interactive computer-based program designed to test, evaluate, and certify a student's knowledge of principles and procedures on various job related subjects. CerTest uses a variety of training materials and a computer program that randomly selects test questions based on the instruction. CerTest does not replace hands-on training. It is designed to augment and enrich a variety of training requirements to ensure that our people are trained and qualified to accomplish their duties.

Computer Based Training (CBT). The use of computers to aid in the delivery and management of instructional material.

Continuation Training. Additional training exceeding requirements with emphasis on present or future duty assignments.

Core Task. A task AFCFMs identify as a minimum qualification requirement within an Air Force specialty or duty position. These tasks exemplify the essence of the career field - the foundation.

Course Objective List (COL). A publication, derived from our initial skills course training standard, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-skill level in this career field. Supervisors use the COL to conduct graduate evaluations in accordance with AFI 36-2202, *Developing, Managing and Conducting Military Training Programs*.

Critical Task. Tasks assigned to an individual by the individual's MAJCOM. Such tasks become mandatory for UGT.

Distance Learning (DL). Training that is exported, such as from a resident course to a field location.

Duty Position Task. The tasks assigned to an individual for the position currently held. These include as a minimum all core tasks and any other tasks assigned by the supervisor.

Enlisted Specialty Training (EST). A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill-level of a specialty.

Exportable Training. Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

Initial Skills Training. A formal school course that results in award of a 3-skill level Air Force Specialty Code.

Instructional System Development (ISD). A deliberate and orderly, but flexible process for planning, developing, implementing, and managing instructional systems. It ensures personnel are taught in a cost efficient way the knowledge, skills, and attitudes essential for successful job performance.

Occupational Survey Report (OSR). A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT). Hands-on, over-the-shoulder training conducted to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training.

Optimal Training. The ideal combination of training settings resulting in the highest levels of proficiency on specified performance requirements within the minimum time possible.

Proficiency Training. Proficiency training is additional training, either in-residence, exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required for upgrade.

Qualification Training (QT). Actual hands-on performance-based training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process and is designed to provide performance skills training required to do the job.

Qualification Training Package (QTP). An instructional package designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer-based, or in other audiovisual media.

Representative Sites. Typical organizational units having similar missions, weapon systems or equipment, or a set of jobs, used as a basis for estimating average training capacities and costs within the Training Impact Decision System (TIDES).

Resource Constraints. Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being delivered.

Skills Training. A formal course which results in the award of a skill level.

Specialty Training. A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in the award of a skill level.

Specialty Training Standard (STS). Describes an Air Force specialty in terms of tasks and knowledge which an airman in that specialty may be expected to perform or to know on the job. It further serves as a contract between Air Education Training Command (AETC) and the user to show the overall training requirements for an Air Force specialty (AFS) taught in formal schools and correspondence courses.

Standard. An exact value, a physical entity, or an abstract concept, established and defined by authority, custom, or common consent to serve as a reference model, or rule, in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

Total Force. All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

Training Capacity. The capability of a training setting to provide training on specified requirements, based on the availability of resources.

Training Impact Decision System (TIDES). A computer-based decision support technology being designed to assist Air Force career field managers (AFCFMs) in making critical judgments relevant to what training should be provided personnel within career fields, when training should be provided (at what career points), and where training should be conducted (training setting).

Training Planning Team (TPT). Comprised of the same personnel as a U&TW, however TPTs are more intimately involved in training development and the range of issues are greater than is normal in the U&TW forum.

Training Requirements Analysis. A detailed analysis of tasks for a particular AFS to be included in the training decision process.

Upgrade Training (UGT). Mandatory training which leads to attainment of higher level of proficiency.

Utilization and Training Workshop (U&TW). A forum of the AFCFM, MAJCOM functional managers (MFMs), Subject Matter Experts (SMEs), and AETC training personnel that determine career ladder training requirements.

SECTION A - GENERAL INFORMATION

1. Purpose. This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. This plan outlines the training individuals require to develop and progress throughout their career. It identifies initial skills, upgrade, qualification, advanced, and proficiency training.

- **Initial skills training** is the AFS-specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. For our career field, this training is provided by AETC at Goodfellow AFB.
- **Upgrade training** identifies the mandatory courses, task qualification requirements, and correspondence course completion requirements for award of the 5-, 7-, and 9-skill levels.
- **Qualification training** is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required to do the job.
- **Advanced training** is formal specialty training used for selected airmen.
- **Proficiency training** is additional training, either in-residence, exportable advanced training courses, or on-the-job training, provided to people to increase their skills and knowledge beyond the minimum required for upgrade.

The CFETP has several purposes:

- 1.1.** Serves as a management tool to plan, manage, conduct, and evaluate a career field's training program. It is used to help supervisors identify training at the appropriate point in an individual's career.
- 1.2.** Identifies task and knowledge training requirements for each skill level in this specialty and recommends education/training throughout each phase of an individual's career.
- 1.3.** Lists training courses available in the specialty and identifies sources of training and the delivery method.
- 1.4.** Identifies major resource constraints which impact full implementation of the desired career field training process.

2. Uses. The plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available for each individual in the specialty.

2.1. AETC training personnel will develop/revise formal resident, non-resident, field and exportable training based on requirements established by the users and documented in Part II of the CFETP. They will also work with the AFCFM, Air Force Civil Engineer Support Agency Training Division (HQ AFCEA/CEOT) to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial, upgrade, and proficiency requirements and identify requirements that can be satisfied by OJT, resident training, contract training, CerTest, or exportable courses. MAJCOM-developed training to support this AFS must be identified for inclusion into the plan.

2.3. Unit training managers and supervisors must ensure each individual completes the mandatory training requirements (including MAJCOM supplemental requirements) for the upgrade training specified in this plan.

2.4. Each individual will complete mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

3. Coordination and Approval. The AFCFM is the approval authority for the CFETP. MAJCOM representatives and AETC personnel will identify and coordinate on the career field training requirements. The AETC training manager for this specialty will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training.

SECTION B - CAREER PROGRESSION AND INFORMATION

4. Specialty Descriptions. Fire Protection Apprentice, Journeyman, Craftsman, and Superintendent.

4.1. Specialty Summary. Protects people, property, and the environment from fire and disasters. Provides fire prevention, fire fighting, rescue, and hazardous materials responses. Related DoD Occupational Subgroup: 495.

4.2. Duties and Responsibilities for Apprentice, Journeyman, Craftsman, and Superintendent.

4.2.1. Fights aerospace vehicle fires. Operates tools and equipment, controls and extinguishes aerospace vehicle fires, and performs ventilation, overhaul, and salvage operations. Performs hazardous operation standbys and airfield surveillance operations.

- Fights structural fires. Performs hose evolutions, shuts off building utilities, evacuates people from buildings, removes injured personnel from the immediate hazard area, protects exposures, positions and operates tools and equipment. Controls and extinguishes structural fires; performs ventilation, salvage and overhaul operations; loads hose; and makes hose load finishes.
- Supports the electrical power production function with resetting aircraft arresting systems when not in conflict with fire fighting operations.
- Fights, controls, and extinguishes fires in wildland and miscellaneous areas.
- Performs rescue operations. Operates rescue tools and equipment. Effects entry by normal and emergency means. Shuts down aircraft engines/systems, and safes egress systems. Performs confined space rescue, emergency medical care, and cardiopulmonary resuscitation (CPR).
- Performs inspections and preventative maintenance on structural, aircraft rescue fire fighting (ARFF), and support vehicles, tools, equipment, and protective clothing.
- Performs crew duties on a Hazardous Materials Response Team.

4.2.2. Drives and operates ARFF and support vehicles.

- Drives and operates structural fire fighting and support vehicles. Performs pump operations.
- When first to arrive at the scene, establishes command and control, and also coordinates/directs fire fighting and rescue activities until relieved by a senior fire officer.

- Performs fire alarm communication center duties. Alerts fire fighting personnel and support agencies, dispatches equipment, and informs personnel of the location and nature of emergency. Provides pertinent information during emergencies, and maintains a fire station log. Monitors, receives, and records information from normal or emergency communication systems. Maintains and reads maps, charts, and status boards. Operates automated communication center equipment. Performs the Civil Engineer service call function as required.
- Inspects, maintains, repairs, recharges, and tests fire extinguishers. Identifies, inspects, and resets fire suppression/detection systems.
- Performs Fire Prevention, Public Fire Education, and Fire Cause Determination duties.

4.2.3. Plans, schedules, and supervises fire protection activities. Directs vehicle responses and vehicle positioning. Directs and controls fire fighting attack, confinement, extinguishment, salvage, overhaul, ventilation, and rescue activities.

- Develops and coordinates pre-incident plans, mutual aid agreements, and support agreements.
- Performs fire prevention inspections. Determines requirements for fire detection and suppression systems, heat and smoke venting devices, water supply and distribution systems, and selection of construction materials. Determines exit criteria and fire flow requirements. Reads and interprets plans, drawings, and specifications. Identifies fire hazards and deficiencies. Computes fire extinguisher distribution requirements.
- Plans, schedules, conducts and evaluates training. Prepares and maintains fire protection records, reports, and charts.

4.2.4. Manages all contingency, training, and fire prevention programs. Functions as the fire chief or as an assistant to the fire chief.

- Plans, organizes, manages, and directs all fire department activities. Plans and schedules periodic facility inspections to ensure sound fire prevention practices have been implemented and to detect fire safety hazards and deficiencies. Prepares and coordinates fire protection mutual aid and support agreements.
- Develops and establishes tactical fire suppression and rescue plans.
- Analyzes fire department operations, determines trends and potential problems, and formulates corrective measures. Determines or defines the need for information management systems necessary to effectively plan, program, and obligate resources. Conducts risk analysis studies and develops/implements policies or quality performance measures as required to maintain mission effectiveness.

- Evaluates fire protection activities. Performs staff or major command visits to fire protection organizations to ensure adequate use of facilities, vehicles, and equipment. Determines the degree of compliance with fire protection policy directives and written instructions. Conducts investigations to determine actual or underlying causes of fire, the effectiveness of fire suppression operations, and to retrieve/validate reported fire loss cost estimates.
- Evaluates techniques for entry to structures and aerospace vehicles to rescue personnel or recover equipment. Solves problems involving extremely volatile elements such as petroleum products, lubricating products, oxidizers, missile fuels, chemicals, and other materials involving radiological hazards. Develops comprehensive fire protection checklists and prefire plans for hazardous operations.
- Reviews all project plans and specifications to include the AF Form 332, DD Form 1391, and project books for technical adequacy of fire protection features. Determines requirements for all types of installed fire suppression and detection systems.

5. Skill/Career Progression. Adequate training and timely progression from the apprentice to superintendent skill level plays an important role in the Air Force's ability to accomplish its mission. Therefore, it's essential that everyone involved in training do their part to effectively plan, develop, manage, conduct, and evaluate this career field's required training programs. The guidance provided in this part of the CFETP will ensure each individual receives viable training at appropriate points in their careers.

5.1. Apprentice. (3-Level)

- Upon completion of initial skills training at Goodfellow AFB TX, the apprentice fire fighters will work with a trainer to enhance their knowledge and skills as an individual and as an integral part of a fire fighting team.
- Typically assigned to a crash or structural fire fighting crew and required to operate handlines, make hose connections to fire hydrants, or perform turret operator duties.
- Expected to perform the duties outlined in National Fire Protection Association (NFPA) Standard 1001 for the Fire Fighter I and II; NFPA Standard 472 at the HAZMAT Operations level; and NFPA Standard 1003, Airport Fire Fighter.
- Will use career development courses (CDCs), task qualification training, and other exportable training/certification courses to progress this career field.
- Once certified at the HAZMAT Operations, Fire Fighter II, Airport Fire Fighter, and Apparatus Driver Operator - Pumper and ARFF levels, the apprentice fire fighter may perform these tasks without direct supervision.

5.2. Journeyman. (5-Level)

- Will enter into continuation training to broaden their experience. The duties a journeyman fire fighter is expected to perform are outlined in NFPA Standard 472, Hazardous Materials Operations; NFPA Standard 1001, Fire Fighter II; NFPA Standard 1002, Apparatus Driver Operator; and NFPA Standard 1003, Airport Fire Fighter.
- Assigned to duty positions such as fire school instructor, fire alarm communication center dispatcher, apparatus driver/operator, hazardous materials team member, or as a rescue crew member.
- Will attend Airman Leadership School (ALS) after having 48 months in the Air Force. After completing ALS, they will be considered for appointment as OJT trainers.
- Will use the references listed in their CDCs to prepare for promotion testing under the Weighted Airman Promotion System.
- Should continue their education towards a degree in Fire Science Technology through the Community College of the Air Force (CCAF).

5.3. Craftsman. (7-Level)

- Fills various supervisory and management positions such as crew chief, station chief, hazardous materials team member/leader, fire inspector, supply technician, training chief, or fire school instructor.
- Seven-levels should take courses or obtain increased knowledge on the effective management of resources and attend the 7-level resident course.
- Continued academic education through CCAF and higher degree programs is encouraged.
- Will attend the Noncommissioned Officer Academy (NCOA) after promotion to TSgt. In-residence or correspondence course required for ARC personnel.

5.4. Superintendent. (9-Level)

- Fills positions such as hazardous materials team leader, assistant chief for operations, assistant chief for technical services, assistant chief for training, assistant chief for operations and readiness, and fire chief.
- Assigned to major command Inspector General teams and Air Staff/MAJCOM staff positions.

- Additional training in the areas of budget, manpower, and personnel management should be pursued through continuing education.
- Individuals promoted to SMSgt or selected as a MSgt will attend the Senior Noncommissioned Officer Academy.
- Higher education and completion of courses outside this AFS are also recommended.

5.5. Fire Protection Manager.

- Must be selected for CMSgt and possess qualifications in specialty 3E7X1.
- Will work in a variety of similar jobs and functional areas where general managerial and supervisory abilities can be most effectively used and challenged.
- Resident graduation of the USAF Senior NCO Academy (SNCOA) is a prerequisite for CMSgt sen-n (active duty only). In residence or correspondence course required for ARC personnel.

6. Training Decisions. The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Fire Protection career field. The spectrum includes a strategy for when, where, and how to meet these training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. The following training decisions were made during the AFSC 3E7X1 Utilization and Training Workshop (U&TW) and at subsequent Air Force Fire Protection Quality Council Meetings.

7. Community College of the Air Force (CCAF) Academic Programs. Airmen are automatically enrolled in CCAF upon completion of basic military training. CCAF provides the opportunity to obtain an Associates in Applied Sciences Degree. In addition to its associates degree program, CCAF offers the following:

- **Occupational Instructor Certificate.** Upon completion of instructor qualification training (consisting of an instructor methods course and supervised practice teaching), CCAF instructors possessing an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.
- **Trade Skill Certification.** When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency-based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

7.1. The Fire Science Technology Degree (9IFY) applies to AFSC 3E7X1.

7.2. Degree Requirements. Prior to completing an Associates Degree, the individual must be awarded a 5-level and the following requirements must be met:

Course Hours	Semester
Technical Education.....	24
Leadership, Management, and Military Studies.....	6
Physical Education.....	4
General Education.....	15
Program Elective.....	15
Technical Education; Leadership, Management, and Military Studies; or General Education	
Total.....	64

7.2.1. Technical Education (24 Semester Hours): A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses.

Technical Core Requirements	Semester Hours
CCAF Internship.....	16
Fire Behavior.....	6
Fire Hydraulics.....	6
Fire Protection Systems.....	6
Firefighting Tactics and Strategy.....	6
Hazardous Materials.....	6
Introduction to Fire Science.....	3

Technical Electives	Semester Hours
AF Enlisted Professional Military Education.....	12
Building Construction.....	3
College Algebra (or Higher Mathematics).....	3
Computer Science.....	6
Emergency Medicine.....	6
Fire Codes and Related Ordinances.....	3
Fire Department Management.....	3
Fire Investigation.....	3
Fire Service Rescue.....	12
General Chemistry.....	3
Industrial Fire Protection.....	3
Industrial Safety.....	3
Labor Relations	3
Quality Assurance.....	3

Technical Writing..... 3

7.2.2. Leadership, Management, and Military Studies (6 Semester Hours): Professional military education and/or civilian management courses.

7.2.3. Physical Education (4 Semester Hours): This requirement is satisfied by completion of Basic Military Training.

7.2.4. General Education (15 Semester Hours): Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and be in agreement with the definitions of applicable general education subjects/courses as provided in the CCAF General Catalog.

General Education Hours	Semester Hours
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Oral Communication.....	3
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Speech

Written Communication.....	3
----------------------------	---

English Composition

Mathematics.....	3
------------------	---

Intermediate algebra or a college-level mathematics course is required.

If an acceptable mathematics course is applied as a Technical or Program

Elective, a natural science course meeting GER application criteria may

be applied as a General Education Requirement.

Social Science.....	3
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Anthropology, Archaeology, Economics, Geography,

Government, History, Political Science, Psychology, Sociology

Humanities.....	3
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Fine Arts (History, Criticism, and Appreciation),

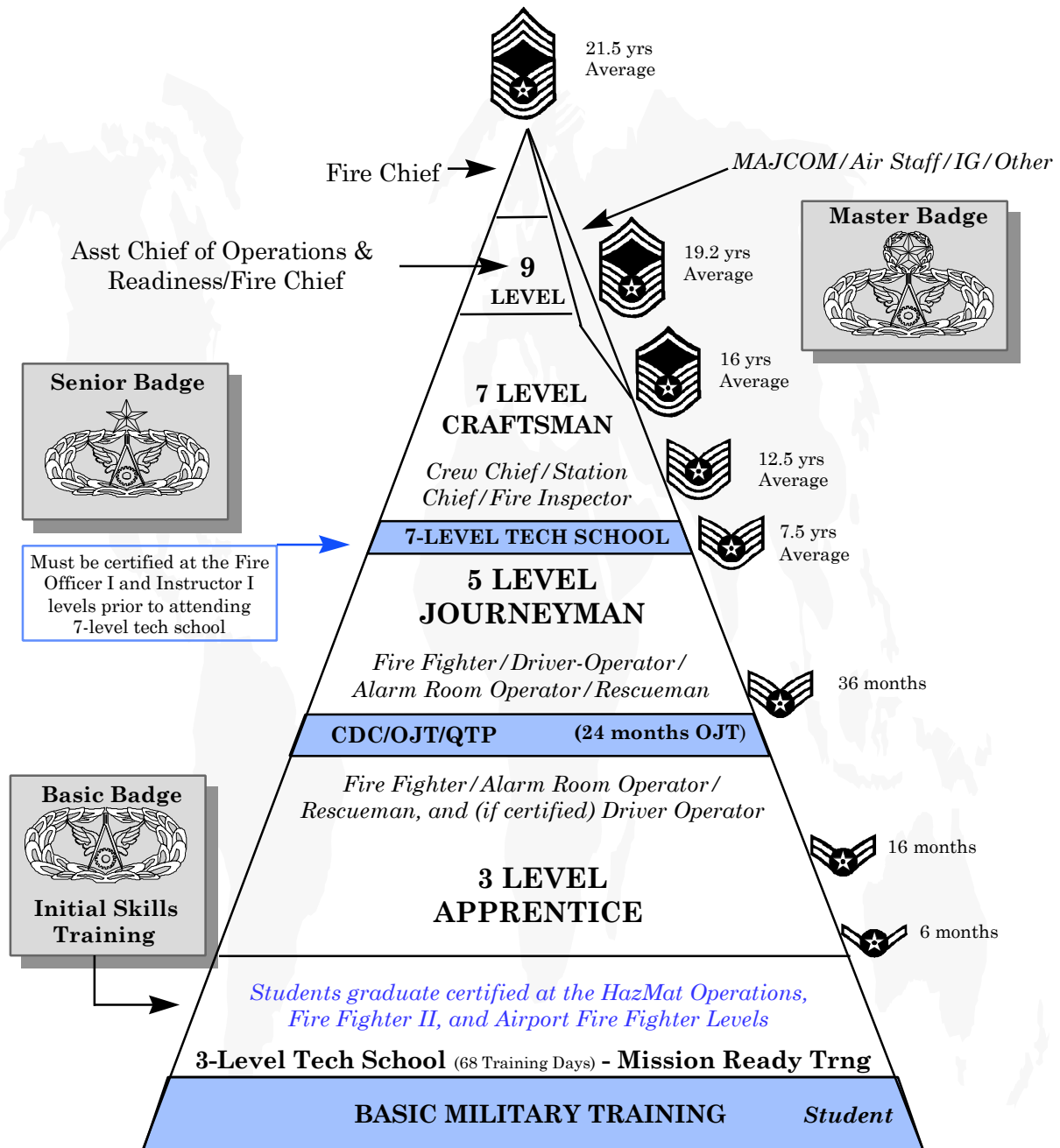
Foreign Language, Literature, Philosophy, Religion

7.2.5. Program Elective (15 Semester Hours): Satisfied with applicable technical education; leadership, management, and military studies; or general education subjects/courses, including natural science courses meeting GER application criteria and foreign language credit earned at the Defense Language Institute or through the Defense Language Proficiency Test. Six semester hours of CCAF degree-applicable technical credit otherwise not applicable to this program may be applied. See the CCAF General Catalog for details regarding the Associates of Applied Science Degree for this specialty.

7.3. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an AETC Instructor should actively pursue an Associates Degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools (SACS).

8. Fire Fighter Enlisted Career Pyramid.

Fire Fighter Career Path



8.1. The Fire Protection Active Duty Manpower Table represents the 1997 demographics for the specialty by grade.

Table 8.1 - Manpower Table								
	CMSgt	SMSgt	MSgt	TSgt	SSgt	SrA	3-Levels	TOTAL
BASE	14	49	139	264	643	1155	1380	3644
MAJCOM	8	4	1	0	0	0	0	13
FOA/DRU	4	1	1	0	0	0	0	6
TOTAL	26	54	141	264	643	1155	1380	3663

8.2. CE Occupational Badge. The Civil Engineer badge reflects a great history and tradition. By wearing it, you will be recognized by your fellow airmen as having achieved an expected level of competence. The multitude of engineers before you established this expectation through excellent service in both peace and war. Eligibility criteria for award and wear of AF occupational badges can be found in AFI 36-2923 (Aeronautical, Duty, and Occupational Badges), on the AFEPL, Air Force Electronic Publications Library.

8.2.1. CE Badge Heraldry. The gear wheel and compass have historically been used to represent the engineering profession, in both the military and civilian sector. The gear represents the essence of engineering: applying scientific principles and technology to practical ends. To Air Force engineers, the gear symbolizes an element (representing the built environment) that meshes with other environments (weapon systems and trained personnel) to enable the Air Force to perform its mission. The compass is a precision tool historically used by engineers in designing and constructing facilities and equipment. The gear and compass together symbolize all the diverse specialties within Air Force civil engineering. Finally, the wings help portray the fundamental linkage between engineering and aviation components and that the built environment is the foundation supporting Air Force mission and people.

8.2.2. Basic Badge. The basic badge is awarded upon successful completion of the Apprentice Fire Protection Specialty course.

8.2.3. Senior Badge. The senior badge adds a star to the top of the badge. This is awarded after the member successfully completes the 7-level awarding course.

8.2.4. Master Badge. The master badge adds a wreath around the star. It's awarded to the members who have completed 15 years in any civil engineer AFS.

8.3. Enlisted Career Path.

Table 8.2 Enlisted Career Path				
PROFESSIONAL MILITARY EDUCATION AND TRAINING REQUIREMENTS				
Education and Training Requirements	GRADE REQUIREMENTS			
	Rank	Average Sew-On	Earliest Sew-On	High Year Of Tenure (HYT)
Basic Military Training school				
Apprentice Technical School (3-Skill Level)	Amn A1C	6 months 16 months		
Upgrade To Journeyman (5-Skill Level) - Complete 3 months duty position/apprentice experience before beginning journeyman training. - Minimum 12 months on-the-job training. - Complete appropriate CDC if/when available. - Sew-on SrA for award of the 5-skill level.	SrA	3 years	28 months	10 Years
Airman Leadership School (ALS) - Must be a SrA with 48 months time in service or be a SSgt Selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).	<u>Trainer</u> - Trainer must be qualified and certified on the tasks to be trained. - Must attend formal AF Training Course and be appointed by the Commander.			
Upgrade To Craftsman (7-Skill Level) - Minimum rank of SSgt. - 18 months OJT. - Complete appropriate CDC if/when available. - Advanced Technical School.	SSgt	7.5 years	3 years	20 Years
Retrainee: - Minimum of 3 months apprenticeship - Minimum 6 months for 5-level - Minimum 12 months for 7-level UGT	<u>Certifier</u> - SSgt with a 5-skill level or civilian equivalent. - Attend formal AF Certifier Course and be appointed by the Commander. - Be a person other than the trainer (for core and critical tasks only).			
Noncommissioned Officer Academy (NCOA) - Must be a TSgt or TSgt Selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	12.5 years	5 years	20 Years
	MSgt	16 years	8 years	24 Years
USAF Senior NCO Academy (SNCOA) - Must be a SMSgt or SMSgt Selectee. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	19.2 years	11 years	26 Years
Upgrade To Superintendent (9-Skill Level) - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	21.5 years	14 years	30 Years

SECTION C - SKILL LEVEL TRAINING REQUIREMENTS

9. Purpose. The skill levels in this career field are defined in terms of tasks, knowledge, and certification requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and COL at Part II, Section A and B of this CFETP.

10. Skill Level Training Requirements:

10.1. Apprentice (3-Level) Training Requirements. (3E731)

10.1.1. Specialty Qualifications.

10.1.1.1. Knowledge. The knowledge requirements spelled out in NFPA Standards 472, 1001, and 1003 are mandatory.

10.1.1.2. Education. Completion of high school with courses in chemistry, general science, and mathematics is desirable.

10.1.1.3. Training. Successful completion of the Fire Protection Apprentice course is mandatory for award of the apprentice skill level.

NOTE: Air National Guard and Air Force Reserve members with prior fire fighting knowledge, training, and experience, may be eligible to apply for a tech school waiver. See AFI 36-2201, *Developing, Managing and Conducting Military Training Programs*, for specific requirements.

10.1.1.4. Experience. No experience is required. However, experience as a paid or volunteer fire fighter is desirable.

10.1.1.5. Other.

- DoD Fire Fighter Certification in HazMat Operations, Fire Fighter II, and Airport Fire Fighter is mandatory for award of the 3E731 AFSC. The student will receive these DoD certifications by successfully completing the Fire Protection Apprentice course.
- Medical Requirements. Must meet NFPA Standard 1582, *Medical Requirements for Fire Fighters*, for entry, award, and retention of this AFSC.
- Ability to speak clearly and distinctly is mandatory for entry, award, and retention of this AFSC.
- Eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Program Management*, is mandatory.

- Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.
- Visual acuity correctable to at least 20/20 in one eye, 20/30 in the other eye, and not more than 20/100 in each eye, uncorrected, is mandatory for entry, award, and retention of this AFSC.
- Normal color vision as defined in AFI 48-123, *Medical Requirements for Fire Fighters*, is mandatory.

10.1.2. Training Sources/Resources. Formal training is accomplished through Fire Protection Apprentice course, X3ABR3E731 003, at Goodfellow AFB TX.

10.1.3. Implementation. The 3-skill level is awarded upon graduating from the Apprentice Fire Protection Specialist course.

10.2. Journeyman (5-Level) Training Qualifications. (3E751)

10.2.1. Specialty Qualification. Entry into 5-level upgrade training is initiated after the individual has completed the 3-level tech school and performed as an apprentice fire fighter for a minimum of 3 months.

10.2.1.1. Knowledge. Knowledge is mandatory of National Fire Protection Association (NFPA) Standards 472, 1001, 1002, and 1003.

10.2.1.2. Education. Completion of high school with courses in chemistry, general science, and mathematics is desirable.

10.2.1.3. Training.

- Successful completion of the following CDC courses is mandatory:
 - Trainees graduating from the Fire Protection Apprentice course prior to 18 Jan 96:
 - CDC 47202, HazMat Operations
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751E, Airport Fire Fighter
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF

- CDC 3E050, General Contingency Responsibilities
- Trainees graduating from the Fire Protection Apprentice course 18 Jan 96 to 28 May 96:
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E751E, Airport Fire Fighter. **Note:** Trainees must **only** complete the live fire burn portion of the Airport Fire Fighter CDC to become airport fire fighter certified. They are not required to enroll in this CDC. They satisfied all airport fire fighter certification requirements at the tech school with the exception of the live fire burns because the Goodfellow AFB training facilities were still under construction.
 - CDC 3E050, General Contingency Responsibilities
- Trainees graduating from the Fire Protection Apprentice course after 28 May 96 to 13 Apr 97:
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E050, General Contingency Responsibilities
- Trainees graduating from Fire Protection Apprentice course after 14 Apr 97:
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E050, General Contingency Responsibilities

10.2.1.4. Experience. Skills listed in NFPA Standards 472, 1001, 1002, and 1003 is mandatory.

10.2.1.5. Other.

- The following DoD certifications are mandatory for award and retention of the 5-skill level:
 - HazMat Operations
 - Fire Fighter II
 - Airport Fire Fighter
 - Apparatus Driver Operator-Pumper
 - Apparatus Driver Operator - ARFF
- Medical Requirements. Must meet NFPA Standard 1582, *Medical Requirements for Fire Fighters*, for entry, award, and retention of this AFSC.
- Must have a Secret security clearance according to AFI 31-501, *Personnel Security Program Management*, for award and retention of this AFSC.
- Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.
- Normal color vision as defined in AFI 48-123, *Medical Requirements for Fire Fighters*, is mandatory.

10.2.2. Training Sources/Resources.

- Trainees graduating from the Fire Protection Apprentice course prior to 18 Jan 96:
 - CDC 47202, HazMat Operations
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751E, Airport Fire Fighter
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E050, General Contingency Responsibilities

- Trainees graduating from the Fire Protection Apprentice course 18 Jan 96 to 28 May 96:
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E751E, Airport Fire Fighter. **Note:** Trainees must **only** complete the live fire burn portion of the Airport Fire Fighter CDC to become airport fire fighter certified. They are not required to enroll in this CDC. They satisfied all airport fire fighter certification requirements at the tech school with the exception of the live fire burns because the Goodfellow AFB training facilities were still under construction.
 - CDC 3E050, General Contingency Responsibilities
- Trainees graduating from the Fire Protection Apprentice course after 28 May 96 to 13 Apr 97:
 - CDC 3E751A, Fire Fighter II
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E050, General Contingency Responsibilities
- Trainees graduating from Fire Protection Apprentice course after 14 Apr 97:
 - CDC 3E751B, Apparatus Driver Operator-Pumper
 - CDC 3E751D, Apparatus Driver Operator - ARFF
 - CDC 3E050, General Contingency Responsibilities
- All core tasks identified with a single asterisk (*) in the core task column of the STS.
- Duty position requirements identified by the supervisor.

10.2.3. Implementation.

- Entry into formal journeyman upgrade training is accomplished 3 months after individuals are assigned to their first duty station. During this initial 3 months, apprentices build task experience while reinforcing training learned at Goodfellow AFB.
- CDCs for this specialty may be ordered (with the supervisor's concurrence) one month prior to completion of the 3 month period.
- Qualification training is initiated any time individuals are assigned duties they are not qualified/certified to perform.

10.3. Craftsman (7-Level) Training Requirements. (3E771)

10.3.1. Specialty Qualification.

10.3.1.1. Knowledge. Knowledge is mandatory of the requirements spelled out in NFPA Standard 1021 (Fire Officer I) and NFPA Standard 1041 (Fire Service Instructor I).

10.3.1.2. Education.

- To assume the grade of SSgt, individual's must successfully complete Airman Leadership School (active duty only).
- To assume the grade of MSgt, individual's must successfully complete the NCO Academy (active duty only).
- For ANG/AFRES personnel, completion of ECI courses 00001 (ALS) and 00006D & E (NCO Academy) satisfies these requirements.
- Possession of an Associate's Degree in Fire Science Technology is desirable.

10.3.1.3. Training.

- Successful completion of the following CDCs is mandatory:
 - CDC 10211, (formerly CDC 57170A) Fire Officer I.
 - CDC 10411, (formerly CDC 57170B) Fire Instructor I.
- Completion of the in-residence 7-level Supervisory Fire Fighter Course is mandatory.
- Completion of the AFIT MGT 427, Fire Protection Management Applications course is strongly encouraged.

- All core tasks identified with a double asterisk (**) in the core task column of the STS.
- Duty position requirements identified by the supervisor.
- Completion of other specialized fire fighter certification courses is highly encouraged. (i.e. Fire Officer II, Fire Inspector series, Fire Instructor series, etc.)

10.3.1.4. Experience.

- Experience performing the skills listed in NFPA Standards 1021 and 1041 is mandatory.
- Experience performing and supervising fire protection functions is mandatory.

10.3.1.5. Other.

- Certification Requirements. Must be certified by the DoD Fire Fighter Certification System at the Fire Officer I and Fire Instructor I. These certification requirements are mandatory prerequisites and must be completed prior to attending the in-residence 7-level course at Goodfellow AFB TX.
- Medical Requirements. Must meet NFPA Standard 1582, *Medical Requirements for Fire Fighters*, for entry, award, and retention of this AFSC.
- Must have a Secret security clearance according to AFI 31-501, *Personnel Security Program Management*, for award and retention of this AFSC.

10.3.2. Training Sources/Resources.

- CDC 10211, (formerly 57170A) Fire Officer I.
- CDC 10411, (formerly 57170B) Fire Instructor I.
- Course X3ACR3E771 000, in-residence 7-level Supervisory Fire Fighter Course.
- NCO Academy course 00006 D & E (paper-based correspondence).
- Course MGT 427, AFIT in-residence Fire Protection Management Applications Course.
- The STS (Part II, Section A of this CFETP) identifies all of the core tasks required for qualification in this duty position.
- Qualified trainers provide upgrade and qualification training is provided by qualified trainers for the duty positions, programs to be managed, and/or equipment to be used.

10.3.3. Implementation.

- Entry into mandatory 7-level upgrade training begins when an individual is selected for promotion to the grade of SSgt.
- Qualification training is initiated any time individuals are assigned duties they're not qualified to perform.

10.4. Superintendent (9-Level) Training Requirements. (3E791)

10.4.1. Specialty Qualifications.

10.4.1.1. Knowledge. Knowledge is mandatory of the requirements spelled out in NFPA Standards 1021 (Fire Officer II/III), 1031 (Fire Inspector I), 1041 (Fire Instructor II), 472 (HazMat Incident Commander).

10.4.1.2. Education.

- Completion of in-residence Senior NCO Academy is mandatory (active duty only).
- For ANG/AFRES personnel, completion of ECI course 00008 D&E (paper-based correspondence) **or** course 00005 (computer-based CD-ROM) satisfies this requirement.
- Completion of the AFIT in-residence, MGT 427, Fire Protection Management Applications Course is desirable.
- Possession of an Associate's Degree in Fire Science Technology is desirable, and a bachelors degree in any other related field is desirable.

10.4.1.3. Training. Completion of the applicable DoD Certification System career development courses listed below in paragraph 10.4.1.5. is mandatory.

10.4.1.4. Experience.

- Experience performing the skills required in the applicable NFPA Standards is mandatory.
- Experience managing and supervising fire protection functions and directing fire fighting operations is mandatory.

10.4.1.5. Other.

- Certification Requirements. To be upgraded to the 3E791 superintendent level, the following certifications are mandatory: Fire Officer II/III, Fire Inspector I, Fire Instructor II, and HAZMAT Incident Commander.

10.4.2. Training Sources/Resources.

- Successful completion of the following CDCs is mandatory unless the individual has already been certified under the DoD Fire Fighter Certification Program at these levels or higher levels.
 - CDC 10212 (formerly 57170E) Fire Officer II
 - CDC 10213, Fire Officer III
 - CDC 10311, Fire Inspector I
 - CDC 10412, Fire Instructor II
 - CDC 47205, Hazardous Materials Incident Commander
- In-residence SNCO Academy located at Maxwell AFB - Gunter Annex AL.
- SNCO Academy course 00008 D&E (paper-based correspondence).
- SNCO Academy course 00005 (exportable computer-based CD-ROM).

10.4.3. Implementation.

- Entry into 9-level training is initiated when an individual is selected for promotion to the grade of SMSgt.
- Qualification training is initiated any time individuals are assigned duties they are not qualified to perform.

10.5. Fire Protection Manager. (3E700)

10.5.1. Specialty Qualification.

10.5.1.1. Knowledge. Knowledge is mandatory of:

- Managing and directing personnel resource activities.
- Interpreting and enforcing policy and applicable directives.
- Establishing control procedures to meet work goals and standards.
- Recommending or initiating actions to improve operational efficiency.

- Planning and programming work commitments and schedules.
- Developing plans regarding facilities, supplies, and equipment procurement
- The requirements spelled out in NFPA Standards 1021 (Fire Officer IV), 1031 (Fire Inspector II), 1041 (Fire Instructor II), 472 (HazMat Incident Commander).

10.5.1.2. Education.

10.5.1.3. Training. Completion of the applicable DoD Certification System career development courses listed below in paragraph 10.5.2. is mandatory.

10.5.1.4. Experience.

- Experience performing the skills required in the applicable NFPA Standards is mandatory.
- Experience managing and supervising fire protection functions and directing fire fighting operations is mandatory.

10.5.1.5. Other.

- Certification Requirements. The following DoD fire fighter certifications are mandatory: Fire Officer IV, Fire Inspector II, Fire Instructor II, and HAZMAT Incident Commander.

10.5.2. Training Sources/Resources

- Successful completion of the following CDCs is mandatory unless the individual has already been certified under the DoD Fire Fighter Certification Program at these levels or higher levels.
 - CDC 10214, Fire Officer IV
 - CDC 10312, Fire Inspector II
 - CDC 10412, Fire Instructor II
 - CDC 47205, Hazardous Materials Incident Commander

10.5.3. Implementation.

- Entry into Fire Protection Manager code 3E700 is initiated when an individual is selected for promotion to the grade of CMSgt.

SECTION D - RESOURCE CONSTRAINTS

11. Purpose. This section identifies known resource constraints which preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be, as a minimum, reviewed and updated annually.

12. Apprentice (3-Level) Training.

12.1. Constraints. None.

12.1.1. Impact. None.

12.1.2. Resources Required. None.

12.1.3. Action Required. None.

12.2. OPR/Target Completion Date. None.

13. Journeyman (5-Level) Training.

13.1. Constraints. Several installations throughout the Air Force do not have the structural or aircraft training facilities necessary to successfully complete all 5-level performance test requirements.

13.1.1. Impact. Fire fighters cannot complete their 5-level certification and upgrade training requirements which negatively impacts their duty performance and career progression.

13.1.2. Resources Required. The MAJCOMs or installations affected must identify and program for the necessary training facilities. In the interim, they should identify sources and make arrangements for their people to receive this training.

13.1.3. Action Required. Identify, program, and construct the training facilities necessary to complete all 5-level upgrade training requirements. In the interim, HQ AFCEA with the approval of the MAJCOM Fire Protection representatives, developed an airport fire fighter regional live fire training initiative to help everyone meet the required hands-on live fire training portion of the airport fire fighter certification course.

13.2. OPR/Target Completion Date. All MAJCOMs, Base Civil Engineers, and Fire Chiefs. ECD: Structural Facilities Unknown. ECD: Crash Fire Training Facilities are being constructed throughout the Air Force at 89 locations with various completion dates. The airport fire regional live fire training initiative will be complete by 1 Aug 97.

14. Craftsman (7-Level) Training.

14.1. Constraints. None.

14.1.1. Impact. None.

14.1.2. Resources Required. None.

14.1.3. Action Required. None.

14.2. OPR/Target Completion Date. None.

SECTION E - TRANSITIONAL TRAINING GUIDE

“There are no transition training requirements for the Fire Protection Specialty. This section is reserved.”

PART II

SECTION A - SPECIALTY TRAINING STANDARD

1. Implementation. This STS will be used for technical training provided by AETC for Apprentice Fire Protection Specialist classes beginning 7 Jan 97 and graduating 14 Apr 97 and the 7-Level Supervisory Fire Fighter course with the class beginning 7 Feb 97 and graduating 21 Feb 97.

2. Purpose. As prescribed in AFI 36-2201, this STS:

2.1. Lists in Column 1 (*Tasks, Knowledge, and Technical Reference*) the most common tasks, knowledge, and technical references (TR) necessary for airman to perform duties in the 3-, 5-, and 7-skill level.

2.2. Column 2 (*Core Tasks*) identifies core tasks (specialty-wide training requirements) by an asterisk (*) for 5- and 7-skill levels or a double asterisk (**) for 7-skill level only. *As a minimum, trainees must complete all core and critical tasks for skill level upgrade.*

2.3. Provides **certification for OJT**. Columns 3A, B, C, D and E are used to record completion of tasks and knowledge training requirements. If available, use automated training management systems to document technician qualifications. **Task certification of core and critical tasks** require a training completion date and the initials of the trainee, trainer, and certifier. All non-core tasks require a training completion date and the initials of the trainee and trainer only.

2.4. Shows **formal training and correspondence course requirements**. Columns 4A, B, and C show the proficiency to be demonstrated on the job by the graduate as a result of training on the task/knowledge and the career knowledge provided by the initial skills training course, correspondence course, and read-ahead material. See CADRE/AFSC/CDC listing maintained by the unit training manager for current CDC listings.

2.5. Identifies tasks with **Air Force Qualification Training Packages (AFQTPs)**. A triangle (D) in column 4B2 indicates a QTP is under development for the particular task and a solid triangle (s) indicates a QTP is currently available for that task. QTPs can be presented on CD-ROM, floppy-disk, paper-based, or video. When available, completion is mandatory for upgrade and qualification training.

2.6. Identifies **qualitative requirements**. Attachment 1 contains the *Proficiency Code Key* used to indicate the level of training and knowledge provided by resident training and career development course.

2.7. Becomes a **job qualification standard (JQS)** for on-the-job training when placed in the AF Form 623, On-The-Job Training Record, and used according to AFI 36-2201, *Developing, Managing and Conducting Military Training Programs*. When used as a JQS, the following requirements apply:

2.7.1. Documentation. Document and certify completion of training.

2.7.1.1. Identify **current duty position requirements** by circling the subparagraph number or letter next to the task statement. Document task completion by annotating columns 3A, 3B, 3C, and 3D. *Note:* All entries must be made “in pencil.”

2.7.1.2. Transcribing from the old document to the new CFETP. Use the new STS to identify and certify all current and past task qualifications.

2.7.1.2.1. For tasks previously certified and still required in the current duty position:

2.7.1.2.1.1. For **core and critical tasks** the supervisor and certifier evaluates the airman’s current qualifications and validates the airman’s ability to complete the task. The supervisor and certifier then enter their initials and new certified date. (They are in essence “recertifying” the individual.)

2.7.1.2.1.2. For **non-core tasks**, the supervisor evaluates the airman’s current qualifications and validates the airman’s ability to complete the task. The supervisor then enters his/her initials in column 3D and a new training completion date in column 3B.

2.7.1.2.2. To **transcribe previous certifications for tasks not required in the current duty position**, carry forward only the previous completion dates (not the initials of another person). If and when these tasks become a duty position requirement, recertify the trainee with the current date and supervisor’s and trainee’s initials.

2.7.1.3. Documenting Career Knowledge. When a CDC is not available, the supervisor identifies STS training references the trainee requires for career knowledge and ensures, as a minimum, that trainees cover all mandatory items in AFI 36-2108, Utilization and Classification of Air Force Military Personnel.

2.7.1.3.1. Two-time CDC course exam failures. Because fire fighter CDCs are part of a national certification system that has been accredited by the International Fire Service Accreditation Congress operated by Oklahoma State University, the waiver authority for two time CDC failures for this career field rests with the Air Force Career Field Manager (AFCFM) located at HQ AFCESA.

2.7.1.3.2. CDC **waiver packages** must be fully justified and be approved by the applicable training and fire protection representatives at the squadron, wing, and MAJCOM levels prior to being forwarded to HQ AFCESA for final approval/disapproval.

2.7.1.4. Decertification and Recertification. When an airman is found to be unqualified on a task, the supervisor shall erase the previous certification and enter the airman into qualification training. Appropriate remarks are entered on the AF Form 623A; *On-The-Job Training Record Continuation Sheet*, as to the reason for decertification. The individual is recertified using the normal certification process.

2.7.2. Training Standard. Tasks are trained and qualified to the “go” level. “Go” means the individual can perform the task without assistance and meet local demands for accuracy, timeliness, and correct use of procedures. This equates to a “3c” in the proficiency code key. AFQTPs, when available, shall be utilized to identify Air Force standardized procedures. Local requirements for accuracy, timeliness and use of procedures shall be applied accordingly.

2.8. Is a guide for the **development of promotion tests** used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by the test development team for promotion to higher grades. Questions are based upon study references listed in the WAPS catalog. Individual responsibilities are in chapter 14 of AFI 36-2606, *US Air Force Reenlistment, Retention, and NCO Status Programs*. WAPS is not applicable to the Air National Guard or Air Force Reserve.

3. Recommendations. Comments and recommendations are invited concerning the quality of training AETC graduates receive. Reference this STS regarding changes and address your correspondence to the Joint Fire Protection Training School, 312 TRS/DOF, 301 Comanche Trail, Goodfellow AFB, TX 76908-4213. For the supervisor’s convenience, a Customer Service Information Line (CSIL) has been established. For a quick response to problems, call the CSIL, at DSN 477-3350, or commercially (915) 654-3350, any time (day or night).

BY ORDER OF THE SECRETARY OF THE AIR FORCE

OFFICIAL

EUGENE A. LUPIA, Maj Gen, USAF
The Civil Engineer
DCS/Installations and Logistics

4 Attachments

1. Qualitative Requirements
2. AFSC Specific Training Requirements
3. Contingency Responsibilities
4. Specialized Fire Fighter Certification Courses

This block is for identification purposes only.		
Name of Trainee		
Printed Name (Last, First, Middle)	Initials (Written)	SSAN
Printed Names and Written Initials of Training and Certifying Officials		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	

Qualitative Requirements

Proficiency Code Key		
	Scale Value	Definition: The individual
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (Extremely limited)
	2	Can do most parts of the task. Needs only help on hardest parts. (Partially proficient)
	3	Can do all parts of the task. Needs only a spot check of completed work. (Competent)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (Highly proficient)
Task Knowledge Levels *	a	Can name parts, tools, and simple facts about the task. (Nomenclature)
	b	Can determine step by step procedures for doing the task. (Procedures)
	c	Can identify why and when the task must be done and why each step is needed. (Operating principles)
	d	Can predict, isolate, and resolve problems about the task. (Advanced theory)
Subject Knowledge Levels **	A	Can identify basic facts and terms about the subject. (Facts)
	B	Can identify relationship of basic facts and state general principles about the subject. (Principles)
	C	Can analyze facts and principles and draw conclusions about the subject. (Analysis)
	D	Can evaluate conditions and make proper decisions about the subject. (Evaluation)
Explanations * A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Example: "b" and "1b") ** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks. /X This mark is used in course columns to show that training is required but not given due to resource constraints. / Lower code (3c/2b) indicates that a task is being trained to a level that is lower than required. Specific tasks not identified with a symbol or proficiency code key (blank) indicates that no training is provided in the course or CDC. Major commands and/or units may establish scale values and combat training as dictated by mission requirements.		

Attachment 1

Note 1: Trainers are responsible for annotating references to identify current sources pending STS revision

Note 2: Underlined training references are commercial publications or other publications essential for enlisted specialty training and mission accomplishment.

Note 3: Items located in column 4 of the STS that list an NFPA standard as a technical reference, the supporting knowledge/tasks, and their associated behaviors are found in the referenced NFPA standard. These items will not a proficiency code, but will be trained in the resident course or Career Development Course (CDC) to a level that minimum NFPA requirements as defined by HQ AFCEA/CEXF and as authorized by the MAJCOMs. Note 3 is referenced as N3 in the STS.

Note 4: Specialized courses are designed and specifically geared towards duty position qualifications. Although the listed in the five skill level column, these courses are applicable for people filling 5-, 7-, and 9-skill level duty position example, the minimum requirement to be a Fire Inspector would be to complete the Fire Inspector I certification requirement. A station captain must be certified at the Fire Officer II level, and an Assistant Chief for Operations should be certified at the Fire Officer III, Fire Instructor II, and HAZMAT Incident Commander levels. Applicable duty position certification requirements are listed in AFMAN 32-2003, The Fire Fighter Certification Program.

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Information Provided				
		A	B	C	D	E	A		B		7
		3 Skill Level		5 Skill Level							
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CE
19. Apparatus Driver / Operator - Aerial TR: <u>NFPA Standard 1002, 1993 Edition & applicable IFSTA Manuals</u>											
19.1. Basic Driver / Operator Requirements											
19.1.1. Preventive Maintenance										N3	
19.1.2. Driving/Operating										N3	
19.2. General Requirements											
19.2.1. Water Supply										N3	
19.2.2. Sprinklers and Standpipes										N3	
19.2.3. Hydraulic Calculations										N3	
19.2.4. Apparatus Systems										N3	
19.2.5. Operations										N3	
20. Apparatus Driver / Operator - Tiller TR: <u>NFPA Standard 1002, 1993 Edition & applicable IFSTA Manuals</u>											
20.1. Basic Driver / Operator Requirements											
20.1.1. Preventive Maintenance										N3	

Note 1: Trainers are responsible for annotating references to identify current sources pending STS revision

Note 2: Underlined training references are commercial publications or other publications essential for enlisted specialty training and mission accomplishment.

Note 3: Items located in column 4 of the STS that list an NFPA standard as a technical reference, the supporting knowledge/tasks, and their associated behaviors are found in the referenced NFPA standard. These items will not include proficiency code, but will be trained in the resident course or Career Development Course (CDC) to a level that meets minimum NFPA requirements as defined by HQ AFCESA/CEXF and as authorized by the MAJCOMs. Note 3 is referenced as N3 in the STS.

Note 4: When a knowledge/task in a referenced NFPA standard cannot be taught in a resident course, the affected knowledge/task will be identified in this training standard using the standard proficiency code key found on the previous page.

Note 5: NFPA knowledge/tasks that are requirements for a previous certification level will normally not be repeated in a resident course.

Note 6: All STS knowledge/tasks listed in the 3-level residence column with the exception of STS item #3, Quality Air Force and item #17 General Contingency Responsibilities are considered core/war tasks and will be taught in a 3-level wartime course. When an item lists an NFPA standard as a reference, all supporting knowledge and tasks are trained in the resident wartime course unless otherwise noted.

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
1. Specific OPSEC Vulnerabilities of AFSC 3E7X1 TR: AFI 10-1101							A		B			
2. Locate Information in Fire Protection Publications TR: <u>NFPA Publications, IFSTA Manuals</u> , and applicable OSHA Regulations												
2.1. Federal Agency Pubs												
2.2. Technical Orders	*											
2.3. Standard AF Pubs	*											
2.4. Commercial Pubs												
3. Quality Air Force TR: Air Force Process Improvement Guide, Total Quality Tools for Teams / Individuals, and Quality Air Force Glossary												
3.1. Principles							A					B
3.2. Fire Fighter's Role							A					B

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
4. Initial Federal Hazardous Communication Program (FHCP) TR: AFOSH STD 161.21.1W							A					
5. Environmental Concerns TR: AFI 32-70 Series												
5.1. Fire Station							A					B
5.2. Fire Fighting Agents							A					B
5.3. Training Exercises							A					B
5.4. HazMat Responses							A					B
6. Fire Fighter I/II TR: <u>NFPA Standard 1001, Chapter 3 and 4, 1992 Edition</u> and <u>applicable IFSTA Manuals</u>												
6.1. General	*						N3					
6.2. Fire Department Organization	*						N3					
6.3. Safety	*						N3					
6.4. Fire Alarm and Communications	*						N3					
6.5. Fire Behavior	*						N3					
6.6. Portable Fire Extinguishers	*						N3					
6.7. Personal Protective Equipment	*						N3					
6.8. Forcible Entry	*						N3					
6.9. Ventilation	*						N3					
6.10. Ropes	*						N3					
6.11. Ladders	*						N3					
6.12. Fire Hose, Appliances / Streams	*						N3					
6.13. Foam Fire Streams	*						N3					
6.14. Fire Control	*						N3					
6.15. Salvage	*						N3					
6.16. Overhaul	*						N3					
6.17. Emergency Medical Care	*						N3					
6.18. Rescue	*						N3					
6.19. Water Supplies	*						N3					
6.20. Sprinklers	*						N3					
6.21. Response to Hazardous Materials Incidents												
6.21.1. Awareness Level	*						N3					

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
6.21.2. Operations Level	*						N3					
6.22. Fire Prevention, Public Fire Education, and Fire Cause Determination	*						N3					
6.23. Building Construction	*						N3					
7. Airport Fire Fighter TR: <u>NFPA Standard 1003, 1994</u> <u>Edition and applicable IFSTA</u> <u>Manuals</u>												
7.1. General	*						N3					
7.2. Response	*						N3					
7.3. Fire Suppression	*						N3					
7.4. Rescue	*						N3					
7.5. Post-Emergency Operations	*						N3					
7.6. Perform Forcible Entry into Aircraft	*						N3					
8. Apparatus Driver / Operator - Pumper TR: <u>NFPA Standard 1002, 1993</u> <u>Edition and applicable IFSTA</u> <u>Manuals</u>												
8.1. Basic Driver / Operator												
8.1.1. Preventive Maintenance	*								N3			
8.1.2. Driving / Operating	*								N3			
8.2. Apparatus Equipped with a Fire Pump												
8.2.1. General Requirements	*								N3			
8.2.2. Water Supply	*								N3			
8.2.3. Sprinklers and Standpipes	*								N3			
8.2.4. Hydraulic Calculations	*								N3			
8.2.5. Apparatus Systems	*								N3			
8.2.6. Operations	*								N3			
9. Apparatus Driver / Operator - ARFF TR: <u>NFPA Standard 1002, 1993</u> <u>Edition and applicable IFSTA</u> <u>Manuals</u>												

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
9.1. Preventive Maintenance	*								N3			
9.2. Driving / Operating	*								N3			
9.3. ARFF General	*								N3			
9.4. ARFF Water Supply	*								N3			
9.5. Hydraulic Principles	*								N3			
9.6. ARFF Apparatus Systems	*								N3			
9.7. ARFF Operations	*								N3			
10. Fire Officer I TR: NFPA Standard 1021, 1992 Edition and applicable IFSTA Manuals												
10.1. General	**										N3	
10.2. Human Resource Management	**										N3	
10.3. Community Awareness / Public Relations	**										N3	
10.4. Organizational Structure	**										N3	
10.5. Budget	**										N3	
10.6. Communication Skills	**										N3	
10.7. Information Management	**										N3	
10.8. Planning	**										N3	
10.9. Inspection, Investigation, and Public Education	**										N3	
10.10. Emergency Service Delivery	**										N3	
10.11. Safety	**										N3	
11. Fire Instructor I TR: NFPA Standard 1041, 1992 Edition and applicable IFSTA Manuals												
11.1. General	**										N3	
11.2. Instructional Planning	**										N3	
11.3. Instructional Development	**										N3	
11.4. Instructional Methods / Techniques	**										N3	
11.5. Instructional Materials / Aids	**										N3	
11.6. Evaluation and Testing	**										N3	
11.7. Training Records and Reports	**										N3	
11.8. Concepts of Learning	**										N3	
11.9. Communication	**										N3	

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
11.10. Roles and Responsibilities	**										N3	
12. Wildland Fire Fighting TR: <u>NFPA Standard 1051, 1995 Edition</u> and applicable <u>IFSTA Manuals</u>												
12.1. Tactics												B
12.2. Strategies												B
13. POL Storage Facility Fire Fighting TR: <u>AFOSH Standard 127-38, 127-40, AFIs 23-205, 23-206, 23-208,</u> and applicable <u>NFPA Publications</u>												
13.1. Tactics												B
13.2. Strategies												B
14. As a Member of a Team, Perform Crew Duties During Emergency Response and Live Fire Exercises TR: <u>NFPA Standards 1001,1002, 1003,</u> and applicable <u>IFSTA Manuals</u>	*						2b					
15. Establish Command and Control and Direct Fire Ground Operations During Emergency Response and Live fire Exercies TR: <u>NFPA Standards 1001, 1003, 1021,</u> and applicable <u>IFSTA Manuals</u>	**											3c
16. Fire Department Organizational Structure TR: DoDI 6055.6; AFMS 44EF; AFIs 32-2001,10-210, 20-211; AFMAN 36-2108; Allowance Standards 019, 016, 490; War Mobilization Plan (WMP), Annex S												

1. Task Knowledge And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
16.1. Use Allowance Standards (AS)												B
16.2. Determine Vehicle Requirements												B
16.3. Assess Manpower Requirements												B
16.4. Determine Equipment Requirements												B
16.5. Identify Budget Requirements												B
16.6. Organizational Structure	**											3c

Note 1: General Contingency Responsibility (CDC 3E050), must be successfully completed by all CE specialties.
Note 2: Personnel retraining from one CE AFSC to another CE AFSC are not required to complete this CDC.
Note 3: Completion of the apprentice course meets the initial requirements for Category I, classroom training.
Note 4: Completion of CDC 3E050 may be used as a substitute for Category I annual requirements (effective one year following the completion of the CDC).

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A 3 Skill Level		B 5 Skill Level		C 7 Skill Level	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
17. GENERAL CONTINGENCY RESPONSIBILITIES TR: AFIs 10-210, 10- 211, 32-1026; T.O.s 35E-5-6-1, 35E4-132-1, 35E4-94-1; Army TMs 10-8340-207-14, 10-450-200-12; WMP-1, Annex S; (Mar 95); AFPAM 10-219, Vol 1, 2, 3, 4, & 5												
17.1. Prime BEEF (PB) Orientation TR: AFDD 2-4.2; AFIs 31-209,10-403; AFCESA/CEX - Prime BEEF Equipment Supply List (ESL); Home Station Training (HST) / Readiness Training Package (RTP) A & B; Geneva Convention Articles												
17.1.1. The Prime BEEF (PB) Program							A		B			
17.1.2. Civil Engineer Doctrine							A		B			
17.1.3. Uniform Code of Military Justice (UCMJ)												
17.1.4. The Law of Armed Conflict												
17.1.5. The Prime BEEF equipment requirements												
17.1.5.1. Consolidated tool kits							A		B			
17.1.5.2. Mobility bags							A		B			
17.1.5.3. Weapons							A					
17.1.5.4. Team kits							A		B			
17.1.5.5. Body armor							A					
17.1.5.6. Tactical communication system							A					
17.1.6. Individual responsibilities							A		B			
17.2. Field Sanitation & Hygiene Measures TR: AFIs 48-110, 10-210; AFDD 35; ARMY FM 21-10; HST/RTP C												
17.2.1. Personal hygiene measures							A		B			

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	(2)	5 Skill Level (1) CDC	(2) SC/QTP	7 Skill Level (1) CDC	(2) Course
17.2.2. Disease and pestilence countermeasures							A		B			
17.2.3. Military field sanitation							A		B			
17.3. Self Protection from Extreme Weather TR: Home Station Training (HST) Course of Study, Vol 2												
17.3.1. Desert survival techniques												
17.3.1.1. Acclimatization							A		B			
17.3.1.2. Sun protection							A		B			
17.3.1.3. Heat exertion									B			
17.3.1.4. Dehydration									B			
17.3.1.5. Heat stroke									B			
17.3.2. Cold weather survival methods												
17.3.2.1. Wearing of clothing							A		B			
17.3.2.2. Immersion foot							A		B			
17.3.2.3. Frost bite							A		B			
17.3.2.4. Hypothermia							A		B			
17.3.2.5. Trench foot							A		B			
17.3.2.6. Wind chill factor							A		B			
17.4. First Aid Techniques TR: AFIs 36-2238, 32-4001, 48-110; AFH 36-2218, Vol 2; <u>Emergency Care and Transportation of the Sick and Injured</u>												
17.4.1. Individual's responsibilities for administering first aid									B			
17.4.2. Self aid and buddy care concept												
17.4.2.1. Lifesaving steps												
17.4.2.1.1. Assure breathing									B			
17.4.2.1.2. Control bleeding									B			
17.4.2.1.3. Protect wound									B			
17.4.2.1.4. Prevent shock									B			
17.4.3. Move and transport injured personnel									B			
17.4.4. Medical echelon concept							A		B			

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
17.5. Personal / Work Party Security TR: AFIs 36-2226, 36-2209, 31-209, 31-301, 10-403, 10-404, 31-207, 10-215; AFPAM 10-219, Vol 3 ; Army FMs 21-75; 7-8												
17.5.1. Combat skills							A		B			
17.5.2. Defensive tactics												
17.5.2.1. Cover and concealment							A		B			
17.5.2.2. Individual movement							A		B			
17.5.2.3. Weapons fire control									B			
17.5.2.4. Communications							A		B			
17.5.2.5. Field fortifications							A		B			
17.5.2.6. Guard placement/perimeter defense							A		B			
17.5.2.7. Recognition code system							A		B			
17.6. Convoy Security TR: AFIs 36-2209, 31-301, 10-211, 36-2225, 31-101, Vol 1; AFMAN 24-309; AFPAM 10-219, Vol 3; Army FMs 7-8, 7-10, 55-30; HST/RTP I												
17.6.1. Convoy principles												
17.6.1.1. Organization							A		B			
17.6.1.2. Command and control							A		B			
17.6.1.3. Vehicle preparation							A		B			
17.6.1.4. Security police interface							A		B			
17.6.1.5. Counter ambush techniques							A		B			
17.6.1.6. Defensive ambush measures							A		B			
17.6.2. Participate in convoy exercise												
17.7. Air Base Ground Defense (ABGD) Interface TR: AFIs 31-301, 31-702; DoD 50002.2; HST/RTP A												
17.7.1. Ground threats							A		B			
17.7.2. ABGD concept							A		B			
17.7.3. Defensive tactics							A		B			
17.7.4. Force movement									B			
17.7.5. Weapons and fire control									B			
17.7.6. Tactical barriers									B			
17.7.7. Fighting/Protective Positions									B			

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
17.8. Vehicle Qualifications TR: AFI 10-210; AFPAM 10-219, Vol. 3, 4; AFD 25-1; AFMAN 24-309; AFI 23-101; AS 12; T.O.s 36A2 series, 36M2 series, 36A12 series; War & Mobilization Plan (WMP), Vol. I, Annex S (Mar 95); HST/RTP I												
17.8.1. Civil engineer contingency vehicle operations									B			
17.8.2. Obtain government driver's license									B			
17.8.3. Qualify on contingency									B			
17.8.4. WRM Assets									B			
17.8.5. Marshal Equipment and Personal									B			
17.9. Rapid Runway Repair (RRR) TR: AFIs 10-210, 10-211, 10-212; T.O.s 35E2-3-1, 35E2-2-7, 35E2-5-1; AFPAM 10-219, Vol 4												
17.9.1. Base Recovery After Attack (BRAAT) concept							A		B			
17.9.2. Rapid Runway Repair (RRR) concept							A		B			
17.9.3. Bed-down Shelters TR: T.O.s 35E5-6-1, 35E4-132-1, 35E4-94-1; AFPAM 10-219 Vol. 2, 3, & 5; ARMY TMs 10-8340-207- 14, 10-4500-200-13												
17.10. Contingency/Wartime Multi-skill requirements TR: AFI 10-210; WMP-1, Annex S (Mar 95)												
17.10.1. Multi-skilling concept							A		B			
17.10.2. Contingency vehicles and							A		B			
17.10.3. Beddown shelters TR: T.O.s 35E-5-6-1, 35E4-132-1, 35E4-94-1; TM 10-4500-200-13; AFI 10-219, Vol 2, 3 & 5												
17.10.3.1. Harvest Eagle							A		B			
17.10.3.2. Harvest Falcon							A		B			
17.10.3.3. Expedient field sanitation							A		B			
17.10.3.4. Expedient repair												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
17.10.3.4.1. Facilities							A		B			
17.10.3.4.2. Utilities							A		B			
17.10.3.4.3. Pavements							A		B			
17.10.3.5. Participate in hands-on multi-skill training												
17.11. Auxiliary Structural Fire Fighting TR: AFIs 10-210, 32-2001; WMP-1, Annex S (Mar 95); <u>International Fire Service Training Association (IFSTA) Manuals</u>												
17.11.1. Civil engineer auxiliary fire									B			
17.11.2. Basic fire fighting principles												
17.11.2.1. Classes of fire									A			
17.11.2.2. Types of extinguishers									A			
17.11.2.3. Fire reporting procedures									A			
17.11.2.4. Evacuation procedures									A			
17.11.2.5. Structural fire fighting									A			
17.11.2.6. Wildlands fires									A			
17.11.3. Equipment and safety factors												
17.11.3.1. Utility isolation									A			
17.11.3.2. Agent/water application									A			
17.11.3.3. Building heat and smoke ventilation									A			
17.11.3.4. Rescue principles									A			
17.11.3.5. Using extinguishers									A			
17.11.3.6. Installed standpipe system									A			
17.11.3.7. Fire hydrant/hose operation									A			
17.11.3.8. Ladder operation									A			
17.11.3.9. Portable pumps									A			
17.11.3.10. Water distribution truck									A			
17.12. Passive Defense Measures Splinter Protection Construction TR: AFPAM 10-219, Vol 2 & 5; AFIs 10-210, 10-11, 10-212, 32-4001, 31-101, 31-209, 31-210, 10-401, 31-301; TM 5-1080-200-13/P; AFH 31-302; AFMAN 32-4005; AFPDs 31-1, 71-1; AFMD 39; AFDD 2-4.2; Instructions for Assembly and Erection of (Type A1 and B1) Aircraft Revetment Kit, 1 Nov 1968												
17.12.1. Hardening/splinter protection												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
17.12.1.1. Intent of hardening protection							A		B			
17.12.1.2. Resource protection												
17.12.1.3. Candidate requirements							A		B			
17.12.1.4. Hardening techniques							A		B			
17.12.2. Resource dispersal												
17.12.2.1. Purpose of resource dispersal							A		B			
17.12.2.2. Types of resources normally dispersed							A		B			
17.12.2.3. Types of dispersal sites							A		B			
17.12.2.4. Dispersal operations							A		B			
17.12.3. Facility Repair TR: AFPAM 10-219, Vol 3 & 4; Home Station Training (HST) Category 1 & 2												
17.12.3.1. Damage assessment							A		B			
17.12.3.2. Damage reporting							A		B			
17.12.4. Camouflage, Concealment, and Deception (CCD) Techniques TR: AFPAM 10-219, Vol 2 & 3; AFCESA/CEX - CCD ConOPs; AFIND 11/ HST-RTP K1, DPT K1, RTP K3, DPTP K3, RTP K9, DPTP K9, & RTP K11												
17.12.4.1. Basic CCD practices							A		B			
17.12.4.2. Types of CCD techniques							A		B			
17.12.4.3. Planning considerations							A		B			
17.12.5. Chemical warfare protection TR: AFMAN 32-4005; 24-309; AFIs 10-203, 10-210, 13-218, 21-101, 32-4001; AFPAM 10-219, Vol 3 & 4; AFIND 11/ HST-RTP C11 & RTP B3												
17.12.5.1. Individual protective equipment												
17.12.5.2. Wartime threat / protective actions / procedures												
17.12.5.3. Decontaminating vehicle / equipment									A			
17.12.5.4. Decontaminate shelter entry point									A			
17.12.5.5. Know USAF standard alarm signals TR: AFPAM 10-219, Vol 2; AFIND 11, HST/RTP C5							A		B			

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
17.12.5.6. Protective shelters												
17.13. Terrorism TR: AFI 31-210, AFPAM 10-219, Vol 2; Joint Pub 1-02; AFDD 35/36												
17.13.1. Awareness									B			
17.13.2. Countermeasures									B			
17.14. Base Denial TR: AFIs 10-210, 10-211;AFPAM 10-219, Vol 3; Army FM 5-250; TO 11A-1-66; HST/RTP I; WMP-1, Annex S (Mar 95)												
17.14.1. Base denial concept							A		B			
17.14.2. Denial methods												
17.14.2.1. Fire							A		B			
17.14.2.2. Explosives							A		B			
17.14.2.3. Component removal							A		B			
17.14.2.4. Sabotage							A		B			
17.14.2.5. Mechanical destruction							A		B			
17.15. Explosive Ordnance Reconnaissance (EOR) TR: AFI 10-210; AFPAM 10-219, Vol 3 & 4; Army FMs 21-16, 21-75												
17.15.1. Potential ordnance							A		B			
17.15.2. Marking procedures							A		B			
17.15.3. Reporting procedures							A		B			
17.15.4. Mass ordnance clearance									B			
17.16. Weapons TR: AFIs 10-210, 31-101, 36-2226, 91-202; AFH 31-223												
17.16.1. Issue									B			
17.16.2. Control									B			
17.16.3. Courier									B			
17.17. Aircraft revetment TR: AFPAM 10-219, Vol 2; AFMAN 32-1071; AFDD 2-4.2; AFM 32-4005; AFIs 31-101, 31-209, 31-210, 10-401, 31-301												
17.17.1. Assemble kit-type revetments												
17.17.1.1. A-1									B			
17.17.1.2. B-1									B			
17.17.1.3. ARMCO									B			
17.17.1.4. Concertainer									B			

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
18.1. AFSC Specific Contingency Responsibilities TR: AFIs 10-403, 32-2001, 10-210, 10-211, 10-212, 25-101; AS 012, 155, 158, 429, 929; T.O. 00-25-172												
18.1.1. Prime BEEF Program												
18.1.1.1. Mission of Prime BEEF							A					
18.1.1.2. Team Composition							A					
18.1.1.3. Training Requirements							A					
18.1.2. War Reserve Materiel (WRM)												
18.1.2.1. Purpose of WRM							A					
18.1.2.2. WRM Authorization							A					
18.1.2.3. CFR Vehicle Sets							A					
18.1.3. State the purpose of HARVEST FALCON / BARE KITS							A					
18.1.4. Mobility Requirements												
18.1.4.1. Preparation												
18.1.4.2. Mobility Bags							A					
18.1.4.3. Personnel Processing							A					
18.1.5. Fire Prevention												
18.1.5.1. Tent City Layout							A					
18.1.5.2. Water Supply							A					
18.1.5.3. Mission Hazards							A					
18.1.5.4. Environmental Conditions												
18.1.5.5. Fire Notification Systems												
18.1. Operations												
18.1.1. Fuel Storage							A					
18.1.2. Dispersal Procedures												
18.1.2.1. Personnel							A					
18.1.2.2. Agents							A					
18.1.2.3. Vehicles							A					
18.1.2.4. Vehicle Fuels							A					
18.1.2.5. Tools and Equipment							A					
18.1.3. Aircraft Servicing												
18.1.3.1. Integrated Combat Turnarounds							A					
18.1.3.2. Abnormal Fueling Operations							A					
18.1.4. Contingency Fire Fighting Actions												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
							(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course
18.1.4.1. Pre-planning Stage							A					
18.1.4.2. Chemical Warfare Environment												
18.1.4.2.1. Alarm Yellow							A					
18.1.4.2.2. Alarm Red/Blue							A					
18.1.4.2.3. Alarm Black							A					
18.1.5. Control Centers												
18.1.5.1. Fire Control Center												
18.1.5.2. Damage Control Center												
18.1.5.3. Survival Recovery Center												
18.1.5.4. Wing Operations Center												

Note 1: Trainers are responsible for annotating references to identify current sources pending STS revision

Note 2: Underlined training references are commercial publications or other publications essential for enlisted specialty training and mission accomplishment.

Note 3: Items located in column 4 of the STS that list an NFPA standard as a technical reference, the supporting knowledge/tasks, and their associated behaviors are found in the referenced NFPA standard. These items will not include a proficiency code, but will be trained in the resident course or Career Development Course (CDC) to a level that meets minimum NFPA requirements as defined by HQ AFCEA/CEXF and as authorized by the MAJCOMs. Note 3 is referenced as N3 in the STS.

Note 4: Specialized courses are designed and specifically geared towards duty position qualifications. Although they're listed in the five skill level column, these courses are applicable for people filling 5-, 7-, and 9-skill level duty positions. For example, the minimum requirement to be a Fire Inspector would be to complete the Fire Inspector I certification requirement. A station captain must be certified at the Fire Officer II level, and an Assistant Chief for Operations should be certified at the Fire Officer III, Fire Instructor II, and HAZMAT Incident Commander levels. Applicable duty position certification requirements are listed in AFMAN 32-2003, The Fire Fighter Certification Program

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level (1) Course	(2)	5 Skill Level (1) CDC	(2) SC/QTP	7 Skill Level (1) CDC	(2) Course
19. Apparatus Driver / Operator - Aerial TR: <u>NFPA Standard 1002, 1993</u> <u>Edition & applicable IFSTA</u> <u>Manuals</u>												
19.1. Basic Driver / Operator Requirements												
19.1.1. Preventive Maintenance										N3		
19.1.2. Driving/Operating										N3		
19.2. General Requirements												
19.2.1. Water Supply										N3		
19.2.2. Sprinklers and Standpipes										N3		
19.2.3. Hydraulic Calculations										N3		
19.2.4. Apparatus Systems										N3		
19.2.5. Operations										N3		
20. Apparatus Driver / Operator - Tiller TR: <u>NFPA Standard 1002, 1993</u> <u>Edition & applicable IFSTA</u> <u>Manuals</u>												
20.1. Basic Driver / Operator Requirements												
20.1.1. Preventive Maintenance										N3		
20.1.2. Driving/Operating										N3		
20.2. General Requirements												

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
20.2.1. Water Supply										N3		
20.2.2. Sprinklers and Standpipes										N3		
20.2.3. Hydraulic Calculations										N3		
20.2.4. Apparatus Systems										N3		
20.2.5. Operations										N3		
21. Hazardous Materials Technician TR: <u>NFPA Standard 472, 1992</u> <u>Edition; NFPA Standard 1561,</u> <u>1990 Edition, NFPA HAZMAT</u> <u>Response Handbook, IFSTA</u> <u>HAZMAT for First Responders,</u> <u>Managing the Incident Manual</u> <u>and the 1996 North American</u> <u>Emergency Response Guidbook</u>												
21.1. General										N3		
21.2. Analyzing the Incident										N3		
21.3. Planning Response										N3		
21.4. Implementing the Panned Response										N3		
21.5. Evaluating Progress										N3		
21.6. Training Records and Reports										N3		
22. Hazardous Materials Incident Commander TR: <u>NFPA Standard 472, 1992</u> <u>Edition; NFPA Standard 1561,</u> <u>1990 Edition, NFPA HAZMAT</u> <u>Response Handbook, IFSTA</u> <u>HAZMAT for First Responders,</u> <u>Managing the Incident Manual</u> <u>and the 1996 North American</u> <u>Emergency Response Guidbook</u>												
22.1. General										N3		
22.2. Analyzing the Incident										N3		
22.3. Planning Response										N3		
22.4. Implementing the Panned Response										N3		

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
22.5. Evaluating Progress										N3		
22.6. Training Records and Reports										N3		
23. Fire Inspector I TR: <u>NFPA 1031, 1993 Edition</u> and applicable IFSTA Manuals												
23.1. General										N3		
23.2. Administration										N3		
23.3. Field Inspection										N3		
24. Fire Inspector II TR: <u>NFPA 1031, 1993 Edition</u> and applicable IFSTA Manuals												
24.1. General										N3		
24.2. Administration										N3		
24.3. Field Inspection										N3		
24.4. Plans Review										N3		
25. Fire Inspector III TR: <u>NFPA 1031, 1993 Edition</u> and applicable IFSTA Manuals												
25.1. General										N3		
25.2. Administration										N3		
25.3. Field Inspection										N3		
25.4. Plans Review										N3		
26. Fire Instructor II TR: <u>NFPA 1041, 1992 Edition</u> and appropriate IFSTA Manuals												
26.1. General										N3		
26.2. Instructional Planning										N3		
26.3. Instructional Development										N3		
26.4. Instructional Methods / Techniques										N3		
26.5. Instructional Materials / Aids										N3		
26.6. Evaluation and Testing										N3		

1. Tasks, Knowledge, And Technical References	2. Core Tasks	3. Certification for OJT					4. Proficiency Codes Used To Indicate Training / Information Provided					
		A	B	C	D	E	A		B		C	
		Tng Start	Tng Complete	Trainee Initials	Trainer Initials	Certifier Initials	3 Skill Level		5 Skill Level		7 Skill Level	
		(1) Course	(2)	(1) CDC	(2) SC/QTP	(1) CDC	(2) Course					
26.7. Training Records and Reports										N3		
26.8. Concepts of Learning										N3		
26.9. References										N3		
27. Fire Instructor III TR: <u>NFPA 1031, 1993 Edition</u> <u>and applicable IFSTA Manuals</u>												
27.1. General										N3		
27.2. Instructional Planning										N3		
27.3. Instructional Materials / Aids										N3		
27.4. Evaluation and Testing										N3		
27.5. Training Records and Reports										N3		
28. Fire Officer II TR: <u>NFPA 1020, 1993 Edition</u> <u>and applicable IFSTA Manuals</u>												
28.1. General										N3		
28.2. Human Resource Management										N3		
28.3. Budget										N3		
28.4. Government Structure										N3		
28.5. Communication Skills										N3		
28.6. Information Management										N3		
28.7. Planning										N3		
28.8. Inspection, Investigation, and Public Educaiton										N3		
28.9. Emergency Service Delivery										N3		
28.10. Safety										N3		
29. Fire Officer III TR: <u>NFPA 1020, 1993 Edition</u> <u>and applicable IFSTA Manuals</u>												
29.1. General										N3		
29.2. Human Resource Management										N3		
29.3. Community Awareness and Public Relations										N3		
29.4. Organizational Structure										N3		

SECTION B - COURSE OBJECTIVE LIST (COL)

4. Measurement. Each objective is indicated as follows:

- **W** indicates task or subject knowledge which is measured using a written test.
- **PC** indicates required task performance which is measured with a performance progress check.
- **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

5. Standard. The standard is at least 75% on all written examinations. Standards of performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or parts of the behavior until satisfactory performance is attained.

6. Proficiency Level. Most task performance is taught to the “2b” proficiency level, which means the student can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

7. Course Objective List. These objectives are listed in the sequence taught by Blocks of Instruction.

7.1. Initial Skills Course. A detailed listing of the initial skills course objectives may be obtained by written request to the Joint Fire Protection Training School, 312 TRS/DOF, 301 Comanche Trail, Goodfellow AFB, TX 76908-4213.

7.2. 7-Skill Level Course. A detailed listing of the initial skills course objectives may be obtained by written request to the Joint Fire Protection Training School, 312 TRS/DOF, 301 Comanche Trail, Goodfellow AFB, TX 76908-4213.

SECTION C - SUPPORT MATERIAL

8. Purpose. This section of the CFETP lists the tests that have been included in the computer-based testing program known as CerTest. See the CerTest Procedural Guide for specific program requirements and features.

8.1. CerTest. CerTest is an interactive computer-based program designed to test, evaluate, and certify a student's knowledge of principles and procedures on various job-related subjects. CerTest uses a variety of training materials and a computer program that randomly selects test questions based on the instruction. CerTest *does not* replace hands-on training. It is designed to augment and enrich a variety of training requirements to ensure our people are trained and qualified to accomplish their duties.

8.2. General Information. The new Fire Fighter Certification System CDCs do not have volume review exercises. Conversely, CerTest gives us the ability to measure a student's knowledge, build a student's confidence, and effectively prepare a student to take the CDC course final exam by allowing the student to take a series of interactive computer-based tests. Students formally enrolled in CDCs should first take all available pretests. Pretests are designed to evaluate current knowledge for a particular training area. Each pretest will provide a "training road map" showing an individual's strengths and weaknesses. A pretest can only be taken once. Use the pretest results to develop an individual training plan. Once developed, a student can begin learning the material and prepare to take the posttests/final exams.

<u>Fire Fighter I Series</u>		<u>Source</u>	<u>Video #</u>
302	Fire Behavior	IFSTA	35626
303	Fire Control I	IFSTA	35627
304	Fire Hose Basics	IFSTA	35629
305	Fire Streams	IFSTA	35630
308	Ladders I	IFSTA	35632
309	Ladders II	IFSTA	35633

<u>Fire Fighter II Series</u>		<u>Source</u>	<u>Video #</u>
319	Advanced Ventilation Techniques	IFSTA	35665
320	Fire Control 2	IFSTA	35652
321	Fire Hose Appliances	IFSTA	35654
322	Foam Fire Streams	IFSTA	35653
323	Overhaul Procedures	IFSTA	35657
324	Power Tool Operation and Safety	IFSTA	35656
325	Rescue	IFSTA	35655
326	Fire Alarm and Communications	IFSTA	35662
327	Building Construction	IFSTA	35659
328	Fire Cause Determination	IFSTA	35664
329	Fire Company Inspections	IFSTA	35661

Fire Fighter II Series Continued

	<u>Source</u>	<u>Video #</u>
330 Fire Prevention and Public Fire Education	IFSTA	35663
331 Sprinkler Systems	IFSTA	35660
332 Water Supplies	IFSTA	35658

Driver/Operator Series

	<u>Source</u>	<u>Video #</u>
333 Aerial Apparatus Maintenance	IFSTA	35452
334 Driving Techniques (Aerial Apparatus)	IFSTA	Title Only
335 Operating Telescoping & Articulating Equipment	IFSTA	Title Only
336 Positioning Aerial Apparatus	IFSTA	Title Only
337 Stabilizing Aerial Apparatus	IFSTA	35450
338 Maintenance & Inspection (Pumping Apparatus)	IFSTA	Title Only
339 Operating Fire Pumps	IFSTA	35410
340 Operating Emergency Vehicles	IFSTA	35408
341 Positioning Apparatus (Pumping Apparatus)	IFSTA	Title Only

Infectious Disease Control

	<u>Source</u>	<u>Video/Wkbk #</u>
345 Why is Infection Control Necessary?	Silent War	Tape 1/Wkbk
346 Understanding Infection Control	Silent War	Tape 2/Wkbk
347 How to Stay Healthy and Survive	Silent War	Tape 3/Wkbk
348 Pre-arrival and On-Scene Control	Silent War	Tape 4/Wkbk
349 Post-Emergency Infection Control	Silent War	Tape 5/Wkbk
350 Exposure, Follow-Up & Confidentiality	Silent War	Tape 6/Wkbk

Hazardous Materials (HAZMAT) Series

	<u>Source</u>	<u>CDC Course #</u>
8501 HAZMAT Awareness (Test "A")	ECI	47201
8502 HAZMAT Awareness (Test "B")	ECI	47201
8503 HAZMAT Operations Part 1 (Test "A")	ECI	47202
8504 HAZMAT Operations Part 2 (Test "A")	ECI	47202
8505 HAZMAT Operations Part 1 (Test "B")	ECI	47202
8506 HAZMAT Operations Part 2 (Test "B")	ECI	47202
8507 HAZMAT Technician Part 1 (Test "A")	ECI	47203
8508 HAZMAT Technician Part 2 (Test "A")	ECI	47203
8509 HAZMAT Technician Part 1 (Test "B")	ECI	47203
8510 HAZMAT Technician Part 2 (Test "B")	ECI	47203
8511 HAZMAT Incident Commander (Test "A")	ECI	47205
8512 HAZMAT Incident Commander (Test "B")	ECI	47205

<u>Certification Course Review Exercises Continued</u>	<u>Source</u>	<u>CDC Course #</u>
8515 Fire Fighter II - Part 1 (Test A)	ECI	57150A
8516 Fire Fighter II - Part 2 (Test A)	ECI	57150A
8517 Fire Fighter II - Part 1 (Test B)	ECI	57150A
8518 Fire Fighter II - Part 2 (Test B)	ECI	57150A
8523 Driver Operator - Pumper, Part 1 (Test A)	ECI	57150B
8524 Driver Operator - Pumper, Part 2 (Test A)	ECI	57150B
8525 Driver Operator - Pumper, Part 1 (Test B)	ECI	57150B
8526 Driver Operator - Pumper, Part 2 (Test B)	ECI	57150B
8531 Driver Operator - Aerial/Tiller (Test A)	ECI	57150C
8532 Driver Operator - Aerial/Tiller (Test B)	ECI	57150C
8535 Driver Operator - ARFF (Test A)	ECI	57150D
8536 Driver Operator - ARFF (Test B)	ECI	57150D
8539 Airport Fire Fighter, Part 1 (Test A)	ECI	57150E
8540 Airport Fire Fighter, Part 2 (Test A)	ECI	57150E
8541 Airport Fire Fighter, Part 1 (Test B)	ECI	57150E
8542 Airport Fire Fighter, Part 2 (Test B)	ECI	57150E
8519 Fire Fighter II - (Test A)	ECI	3E751A
8520 Fire Fighter II - (Test A)	ECI	3E751A
8527 Driver Operator - Pumper, (Test A)	ECI	3E751B
8528 Driver Operator - Pumper, (Test B)	ECI	3E751B
8529 Driver Operator - Aerial (Test A)	ECI	3E751C
8530 Driver Operator - Aerial (Test B)	ECI	3E751C
8537 Driver Operator - ARFF (Test A)	ECI	3E751D
8538 Driver Operator - ARFF (Test B)	ECI	3E751D
8543 Airport Fire Fighter (Test A)	ECI	3E751E
8544 Airport Fire Fighter (Test B)	ECI	3E751E
8533 Driver Operator - Tiller (Test A)	ECI	3E751F
8534 Driver Operator - Tiller (Test B)	ECI	3E751F
8547 Fire Officer I (Test A)	ECI	57170A
8548 Fire Officer I (Test B)	ECI	57170A
8549 Fire Officer II (Test A)	ECI	10212
8550 Fire Officer II (Test B)	ECI	10212
8557 Fire Officer III (Test A)	ECI	10213
8558 Fire Officer III (Test B)	ECI	10213
8559 Fire Officer IV (Test A)	ECI	10214
8560 Fire Officer IV (Test B)	ECI	10214

<u>Certification Course Review Exercises Continued</u>		<u>Source</u>	<u>CDC Course #</u>
8551	Fire Service Instructor I (Test A)	ECI	57170B
8552	Fire Service Instructor I (Test B)	ECI	57170B
8553	Fire Service Instructor II (Test A)	ECI	10412
8554	Fire Service Instructor II (Test B)	ECI	10412
8555	Fire Service Instructor III (Test A)	ECI	10413
8556	Fire Service Instructor III (Test B)	ECI	10413
8561	Fire Inspector I (Test A)	ECI	10311
8562	Fire Inspector I (Test B)	ECI	10311
8563	Fire Inspector II (Test A)	ECI	10312
8564	Fire Inspector II (Test B)	ECI	10312
8565	Fire Inspector III (Test A)	ECI	10313
8566	Fire Inspector III (Test B)	ECI	10313

SECTION D - EDUCATION AND TRAINING COURSE INDEX

9. Purpose. This section of the CFETP identifies training courses available for the fire protection specialty. Refer to AFCAT 36-2223, *USAF Formal Schools*, for information on the Air Force in-residence courses listed in this index.

10. Air Force In-Residence Courses/Mobile Training Team (MTT) Courses.

Course Number	Title	Location	User
X3ABR3E731 003	Fire Protection Apprentice Course	Goodfellow	DoD
X3AZR3E751 016	Crash Fire Fighting Course	Goodfellow	DoD
X3AZR3E751 015	Structural Fire Fighting Course	Goodfellow	DoD
X3AZR3E751 003	Fire Rescue Course	Goodfellow	DoD
X4AST3E751 010	P-23 Fire Truck Operations Course	MTT	AF
X3ACR3E771 000	Supervisory Fire Fighter Course	Goodfellow	AF
X3AZR3E771 003	Fire Inspector Course	Goodfellow	DoD
X3AZR3E771 012	Hazardous Materials Train-the-Trainer Course	Goodfellow	DoD
MLMDC 813	On-Scene Commanders Course	Maxwell	AF
MGT 427	Fire Protection Management Applications Course	Wright-Patt	AF

11. Extension Course Institute (ECI) Courses.

Course Number	Title	Source	Date
10011 (3E731)	Fire Fighter I	ECI	10/94
10012 (3E751A)	Fire Fighter II	ECI	10/94
10021 (3E751B)	Apparatus Driver Operator - Pumper	ECI	12/95
10022 (3E751C)	Apparatus Driver Operator - Aerial	ECI	12/95
10023 (3E751D)	Apparatus Driver Operator - ARFF	ECI	12/95
01003 (3E751E)	Airport Fire Fighter	ECI	12/95
10024 (3E751F)	Apparatus Driver Operator - Tiller	ECI	12/95
47201	Hazardous Materials - Awareness Level	ECI	10/94
47202	Hazardous Materials - Operations Level	ECI	10/94
47203	Hazardous Materials - Technician Level	ECI	10/94
47205	Hazardous Materials - Incident Commander	ECI	10/94
10211 (57170A)	Fire Officer I	ECI	11/93
10212 (57170E)	Fire Officer II	ECI	11/93
10213	Fire Officer III	ECI	01/97
10214	Fire Officer IV	ECI	07/97
10411 (57170B)	Fire Service Instructor I	ECI	11/93
10412	Fire Service Instructor II	ECI	05/95
10413	Fire Service Instructor III	ECI	05/95
10311	Fire Inspector I	ECI	07/96
10312	Fire Inspector II	ECI	10/96
10313	Fire Inspector III	ECI	10/96
3E050	General Contingency CDCs	ECI	11/93

12. Exportable Courses.

Course Number	Title	Media
B-1	B-1 Aircraft	CD-ROM
C-5	C-5 Aircraft	CD-ROM
612527	C-17 Aircraft	CD-ROM
C-141	C-141 Aircraft	Laser Disc
612526	KC/RC-135 Aircraft	CD-ROM
612637	KC-10/DC-10/MD-11 Aircraft	CD-ROM
F-15	F-15 Aircraft	Laser Disc
F-16	F-16 Aircraft	CD-ROM
612525	F-18 Aircraft	CD-ROM
612528	747 Aircraft	CD-ROM
612531	Hazardous Materials Awareness	CD-ROM
612532	Hazardous Materials Operations	CD-ROM
612530	SCBA	Video
612529	Physical Fitness	Video
612888	Fire Fighter Certification System	Video
3E0X2-30c	Mobile Aircraft Arresting System (MAAS)	CD-ROM

Note: With the exception of the Mobile Aircraft Arresting System multimedia program, each fire department was automatically sent copies of the Fire Fighter Multimedia Training Programs. If you have not received your copies, write to:

ASC/VXO (Attn: Mr. Grimm)
314 W. Choctawhatchee Avenue, Suite 104
Eglin AFB FL 32542-5717

DSN: 872-4695, ext 321.
Comm: (904) 882-4695, ext 321

13. Courses or CerTest Computer-Based Tests Under Development/Revision.

13.1. The following fire fighter certification system CDC courses need to be developed or are various stages of development.

Course Number	Title	Developer	Date Due
3E050	General Contingency Responsibilities	CDC Writer	Dec 98
10611	Public Safety Telecommunicator I	CDC Writer	TBD
10612	Public Safety Telecommunicator II	CDC Writer	TBD
10511	Wildland Fire Fighter I	CDC Writer	TBD
10512	Wildland Fire Fighter II	TBD	TBD
10513	Wildland Fire Fighter III	TBD	TBD
10514	Wildland Fire Fighter IV	TBD	TBD
TBD	Shipboard Fire Fighter	TBD	TBD
1006	Rescue Technician	TBD	TBD
10351	Public Fire Educator I	TBD	TBD
10352	Public Fire Educator II	TBD	TBD
10353	Public Fire Educator III	TBD	TBD
10354	Public Fire Educator IV	TBD	TBD

13.2. The following Fire Fighter Multimedia System courseware (Qualification Training Packages) is under development. These training packages will be available on videotape, laser disc, or CD-ROM for use on the multimedia computer system HQ AFCESA purchased and provided to each active duty, Guard, and Reserve fire department.

Course Number	Title	Media	Status
612638	C-130 Aircraft	CD-ROM	Under Development
TBD	F-15 Aircraft	CD-ROM	Being Converted
612533	Hazardous Materials Technician	CD-ROM	Under Development
TBD	P-23 Crash Fire Fighting Vehicle	CD-ROM	Under Development
TBD	F-117 Aircraft	CD-ROM	Under Development
TBD	T-38 Aircraft	CD-ROM	Under Development
TBD	A-10 Aircraft	CD-ROM	Under Development
TBD	767 Aircraft	CD-ROM	Under Development
TBD	737 Aircraft	CD-ROM	Under Development
TBD	Confined Space Rescue	CD-ROM	Under Development
TBD	Emergency Medical Training	CD-ROM	Under Development
TBD	USAF Vehicles	CD-ROM	Requires Funding

13.3. The following CerTest Computer-Based Tests are or will be developed for future DoD Fire Fighter Certification courses.

<u>Certification Course Review Exercises Cont</u>		<u>Source</u>	<u>CDC Course #</u>	<u>Date Due</u>
TBD	Public Telecommunicator I (Test A)	ECI	10611	TBD
TBD	Public Telecommunicator I (Test B)	ECI	10611	TBD
TBD	Public Telecommunicator II (Test A)	ECI	10612	TBD
TBD	Public Telecommunicator II (Test B)	ECI	10612	TBD
TBD	Wildland Fire Fighter I (Test A)	ECI	10511	TBD
TBD	Wildland Fire Fighter I (Test B)	ECI	10511	TBD
TBD	Wildland Fire Fighter II (Test A)	ECI	10512	TBD
TBD	Wildland Fire Fighter II (Test B)	ECI	10512	TBD
TBD	Wildland Fire Fighter III (Test A)	ECI	10513	TBD
TBD	Wildland Fire Fighter III (Test B)	ECI	10513	TBD
TBD	Wildland Fire Fighter IV (Test A)	ECI	10514	TBD
TBD	Wildland Fire Fighter IV (Test B)	ECI	10514	TBD
TBD	Rescue Technician	ECI	1006X	TBD
TBD	Rescue Technician	ECI	1006X	TBD
TBD	Shipboard Fire Fighter	ECI	TBD	TBD
TBD	Shipboard Fire Fighter	ECI	TBD	TBD

SECTION E - MAJCOM-UNIQUE REQUIREMENTS

“There are currently no MAJCOM-unique requirements. This area reserved.”

SECTION F - HOME STATION TRAINING

14. Purpose. The purpose of this section is to identify the tasks, training references, and training sources available in support of contingency/wartime training. Training ranges from knowledge-type training conducted in a classroom to task-oriented (hands-on) training conducted in the field. The tasks are general in nature and pertain to all civil engineer career fields. All civil engineer personnel are expected to receive this training even though the tasks may not be directly related to their AFS but support other CE AFSs.

14.1. Home Station Training (HST) Definition. HST is defined as training that is conducted at the individual's home station.

- Category I (CAT-I) training consists of knowledge-level training such as Prime BEEF orientation, field sanitation, and health/hygiene. CAT-I training is normally accomplished through briefings and the use of videos and other training aids.
- Category II (CAT-II) training is primarily task-oriented such as weapons training, hard-back tent construction, and convoy security. This training is normally conducted in the field during bivouacs.

14.2. Training References.

14.2.1. AFI 10-210, Prime Base Engineer Emergency Force (BEEF) Program. Chapter three of AFI 10-210 identifies the Prime BEEF annual HST requirements. This document is located in the Readiness Flight. Figure 14.1 is a list of HST CAT-I training requirements. Figure 14.2 is a list of CAT-II training requirements.

14.2.2. Prime BEEF Wartime Task Standard (WTS). The WTS lists basic wartime skills, knowledge, and the major common contingency/wartime tasks Prime BEEF teams will be required to perform. The WTS identifies the AFSs associated with each task, required resources to accomplish the task, and the maximum time (under optimum conditions) expected to complete the task. The document also identifies the lead AFS on each task. This document is located in the Readiness Flight. All tasks, skills, and knowledge required in the WTS are included in the STS portion of this CFETP.

14.2.3. AFPAM 10-219, Contingency and Disaster Planning. These documents assist in home station training and contingency responses. They replace the AFP 93-12 series of planning documents. There will be ten volumes to the AFPAM when completed and will be available on the Air Force Electronic Publications Library (AFEPL). The following is a list of the volumes making up AFPAM 10-219:

Volume	Title
1	Contingency and Disaster Planning
2	Preattack and Predisaster Preparations
3	Postattack and Postdisaster Procedures
4	Rapid Runway Repairs
5	Bare Base Conceptual Planning Guide
6	Planning and Design of Contingency Air Bases
7	Expedient Construction Methods
8	Prime BEEF Manager's Guide
9	Establishing and Maintaining Contingency Air Bases
10	Engineer Wartime Task Standard

14.2.4. Air Force Catalog 36-2223, USAF Formal Schools. Lists additional training and education opportunities available for civil engineer personnel. This catalog contains information on formal education and training courses. The catalog is updated quarterly. The catalog is on the AFEPL. Your unit training manager will maintain a hard-copy of this catalog.

14.2.5. ConTest. ConTest is an interactive computer-based testing program designed to evaluate a student's knowledge of contingency topics. ConTest is used to determine student's comprehension following HST CAT-I classes. ConTest can also be used by students who "challenge" the requirement to attend CAT-I classes due to their prior experience, existing knowledge on the subjects, or previous attendance to training classes. Members successfully passing a ConTest test will be given credit for meeting the required training. ConTest is distributed on CD-ROM and is maintained by the Readiness Flight. *ConTest is not intended to replace initial HST requirements for new member, nor is it intended to replace CAT-II training.*

14.2.6. Readiness Training Package (RTP). RTPs are lesson plans for HST lessons. The RTPs are intended for those people who teach any area of HST. The index for the RTPs is located in AFIND 11. The RTPs are also on the Air Force Civil Engineer Support Agency (AFCESA) home page. The Internet address for this information is <http://www.afcesa.af.mil>.

14.2.7. Other Documents. AFH 10-222, Bare Base Development, Vols. 1 & 2 are pocket guides providing information on bare base development for all AFSs. AFH 10-222, Vol. 4, Air Force Environmental Handbook for Contingency Operations was developed to assist the environmental career field (3E4X3) on environmental quality issues during contingency and training operations. The handbook can be used by any AFS who works closely with environmental issues.

14.3. Ancillary Training.

14.3.1. Team Exercise Sites. All civil engineer personnel who fill critical Unit Type Code (UTC) positions will receive team qualification at Silver Flag Exercise Sites (SFES) with the exception of members on headquarters staff augmentation UTCs, pavement evaluation UTCs, and generator repair and maintenance UTCs.

14.3.2. Training Locations and Frequencies. There are currently three active SFES in the world today. They are located at Tyndall AFB, Florida; Ramstein AFB, Germany; and Kadena AFB, Japan. Personnel in critical UTC positions will be qualified at least every two years on the elements listed in table four of AFI 10-210. Air Reserve Components (ARC) will be qualified at least every three years.

HOME STATION TRAINING
Category I - Classroom Training

Item	Task
1.	Prime Beef Orientation
1.1	The Individual's Role
1.2	Members Placement into the Prime BEEF Organization
1.2.1.	Organization Overview
1.2.2	Training
1.2.3	Equipment
1.2.4	Operating Concepts
1.2.5	Contingency Mission
1.2.5.1	MAJCOM
1.2.5.2	Unit
2.	Field Sanitation and Health
2.1	Field Sanitation
2.2	Buddy Care Procedures
2.3	Self Aid
2.4	Personal Hygiene
2.5	Control of Communicable Diseases
2.17	Kitchen and Mess Sanitation
2.7	Extreme Climates
2.8	Field Hygiene
2.9	Self Aid and Buddy Care (SAME AS 2.2 AND 2.3)
2.10	Water Purification
3.	Explosive Ordnance Reconnaissance
3.1	Recognize Ordnance
3.2	Describe Ordnance
3.3	Report Location of Ordnance to Appropriate Control Center
4.	Expedient Methods
4.1	Expedient Beddown
4.1.1	Harvest Eagle
4.1.2	Harvest Falcon
4.1.3	Layout a Base
4.1.4	Theater Utility Systems
4.1.5	Harden Facilities
4.2.	Expedient Field Construction
4.2.1	Construct Hardback Tent
4.2.2	Field Latrines
4.2.3	Berms and Dikes
4.2.4	Field Utility System

Figure 14.1

Item	Task
4.2.5	Wood Frame Buildings
4.2.17	Modular Construction
4.2.7	Bridges and Culverts
4.3	Expedient Repair of:
4.3.1	Electrical
4.3.2	Plumbing
4.3.3	Roads
4.3.4	Buildings
4.3.4.1	Shoring
4.3.4.2	Scabbing
4.3.5	Runway
4.3.17	Facility
4.3.7	Other Utilities
4.4	Expedient Destruction/Base Denial
4.4.1	Non Explosive
4.4.2	Explosive
5.	Security Training
5.1	Physical
5.2	Personal
5.3	Work Party
5.4	Convoy
5.5	Air Base Ground Defense (ABGD)
5.5.1	Standoff Techniques
5.5.2	Defense Positions
5.5.3	Movement to Defensive Positions
5.5.4	Fire and Maneuvering
5.5.5	Reacting to Attacks

HOME STATION TRAINING
Category II - Hands-on Training

Item	Task
1.	Government Vehicle and Equipment Operator Training
1.1	Contingency Vehicle Qualifications (AFI 10-210, Chapter 3)
1.2	Equipment Training (AFI 10-210, Table 3)
2.	NBC Defense Training
2.1	NBC Defense Policy
2.2	USAF Alarm Signals and Actions
2.3	Personal Protective Equipment (PPE)
2.4	Contamination Control
2.17	Lethal Chemical Agents and Defense Actions
2.17	Biological Warfare Agents and Defense Actions
2.7	Mission Oriented Protective Posture (MOPP) Levels
2.8	Attack Reporting Procedures
3.	Weapons Training
3.1	M-117
3.2	.38-cal.
3.3	9mm
3.3.1	Courier
3.3.2	Guard
3.3.3	In-Flight Security
4.	Expedient Methods
4.1	Beddown
4.1.1	Force Beddown
4.1.1.1	Bare Base Assets
4.1.1.2	Use Impoverished Materials for Construction of:
4.1.1.2.1	Buildings
4.1.1.2.2	Facilities
4.2	Field Construction
4.2.1	Using Normal Construction Equipment and Materials:
4.2.1.1	Tent, Hard Back
4.2.1.2	Field Latrines
4.2.1.3	Berms and Dikes
4.2.1.4	Field Utility System
4.2.1.17	Wood Frame Building
4.2.1.17	Pre-Engineered Building
4.2.1.7	Modular Construction
4.2.1.8	Bridge and Culverts

Figure 14.2

Item	Task
4.3.	Repair and Destruction Methods
4.3.1	Plan and Use Expedient Techniques.
4.3.2	Electrical
4.3.3	Plumbing
4.3.4	Roads
4.3.5	Buildings
4.3.5.1	Shoring
4.3.5.2	Scabbing
4.3.17	Rapid Runway Repair (RRR)
4.3.17.1	Crush Stone
4.3.17.2	AM-2 Matting
4.3.17.3	Fiberglass Mat
4.3.17.4	Spall Repair
4.3.17.5	Command and Control
4.3.17.17	Minimum Operating Strip
4.3.7	Non-Explosive Base Denial Expedient Destruction for:
4.3.7.1	Base Utilities
4.3.7.2	Base Facilities
4.3.7.3	Engineering Equipment
5.	Field Training -- AFI 10-210, Table 2
5.1	Bivouac-Practice Contingency Skills:
5.1.1	Camp Layout
5.1.2	Vehicle Operations
5.1.3	Erection of Bare Base Assets
5.1.4	First Aid
5.1.5	Field Sanitation
5.1.17	Multiskilling
5.1.7	Nuclear Defensive Techniques
5.1.8	Biological Defensive Techniques
5.1.9	Chemical Defensive Techniques
5.1.10	Personal Security
5.1.11	Work Party Security
5.1.12	Convoy Security
5.1.13	Defensive Techniques to Support and Augment Security Police
5.1.14	Coordination and Communication Procedures
	Note: For a further explanation of Category I or II Home Station Training requirements, see AFI 10-210